

SEQ ID NO: 1

1 TGCAAGCTTG CAAGTTTTAC TGTCTCATAT GGTTACATA CCATTCATTT
 51 AGCGTGGCCT CACAACCAAC TTGGGAACCA CTGCCCTAAG TAACAATACC
 101 TCACATATCC ATAGGATCTT CAACACCATT CTGCTTAAAA TTCAAATCCC
 151 TTTTCATTAAA ATAGAAGATA TTTAGATACA AGATAAATAG AGCATATGTT
 201 TGTATGTGGT CATCTTCAGT TCTAGAAACA GTTTCTTCTC TCTTATGCAA
 251 CTGAAAAGTAG CTTAGTTTCC ACAGCCCCGT GCAGAGCAAT ACGGTTGTAC
 301 TGCTCTCAAA GAAGTACCAA CACAACATGC ATCAGCAGAG TTGCACAAGA
 351 CTACTGAAAT AAAATTTGCT TAGCTGCTAG TGAAAACATA AGTATCCTTG
 401 CTTGTAAACA AAAGCATAAG TCATTTTACA CACCTCCATT TGCAGGGCTT
 Q gene exon 5
 451 CAGCTAATCC TCGAAGAGCA AACTTGGTCG GAGAATAGGC TGTATAACCA
 501 AAAAGGCCTA ATTGCCCAGC CTGAGATGAT ACAAACACAA TCCTTCCCAT
 551 CCGTCGTTCC TTCATGGTAG AGATGACTGC ACGACTCGGG TAAACACTAC
 601 CTAGATAATT GACTGCCATT AATCTCTGTG GGAAAAAAA AAGATATTAA
 651 AATGGTATTT CAGTCACTGA TTCAGAATTC TTCAGATGTT TAGTTTATT
 701 TCTCCAAAAT CCCTACTGAG GCTTGCTTTA ACATCAAAT CCACTACATT
 751 TCTATCAGCG AGCAAAGTAA ACAATTGTTT TCTACTGTAT TTGTTTCATA
 801 AACGTTCCAT AGCAAAGAAT CTCACCGTAA GACAAAAAGA AATGCACTGT
 851 ATATACAAGT GTTAATGGCA TTGAGGATAC TAATGATGTG AGCTATTATG
 901 GCTTTCACAA AGAAAAAAGG GCAAATTACA AAAAAAAGT ACTTGAACAG
 951 TGTCTAGGAA GCAATCCATT TATACAAGAA GTACAAAAAC ATTGAAGTGA
 1001 AAGTTTAAAG GGCTTCCTAA AAAAAAGAAA GAGGAAAAAT TCTATGTATA
 1051 TATGCACAAG CTCTCATCTT GGCAGGTAAG ATTAATTCCT GTTTCATCT
 1101 CCTGAAGACC TAAAACACAA CTGGTGGCCT ACACAAGCAA TAAAACAGAT
 1151 TATTTACCCT TACTGTTACA CTTACTATAA CATTATGCCT ATTCAGTATC
 1201 ACGTGCATTT TCAGATGGCT CTGTGATGAA GTGAGAATCA AAGTAACCAG
 1251 AAAGTAGAGA GGCTGTTTGG TTTTTTTAA TGTATTTTGG TTTGGGTTTT
 1301 ACTGTTGTTT CTTTCTTTCC ACCAAGCTGC ACCAAGTTAC CAACAGTTTA
 1351 CATACCGCAG AGTTGAATGC TGACAAGATG GATTCTTCTT TAACAGATTC
 1401 AAAATATGGG AAAAAGACCC ACACATCTTC ACCAGGAAAA AAGAGCCCAA
 1451 TTCAGTGTCT TTCACAGCGT GTTAAATAAA AGCACACATC AACCTTCCTT
 1501 TCCATCTTGA GGTCCTTCCC TATCCCAGGT GGGGAATTCA CTGTTCTGAA
 1551 TTGTCCATGG ACCAATAATC AGGTAAAAAA ATAAGTTGCA ATCCTTGCAA
 1601 ATCTAAAAAT GCATACAAAG ACCACCACTA ACGAAATATA TTGCTACTCA
 1651 CACAGTCCGG AAAGACACAG TAAAATAATC TATTCCTTAG AACAGCGGAA
 1701 TGACAAATTA CTTGCAATGA AATAAAGCAT GATCACTCAC TTCAAAAGAA
 Q gene exon 4
 1751 TTTACTTCAA TATCCTCAA TTTTCCTGTA ACTGATGTTT CTGCACAGTT
 1801 GACAAGCAGG TCAACTGGTC CCAGCTTCTC CTGAGCCTGC AAGAGGACAG
 1851 AAATTAAGCT CTCCAGCAGG AAAAAAAGCA TTCATATAGC ATAGTGTCTAT
 Q gene exon 3
 1901 CATTAAATAT ACTGCCACTT GAAACACATC GTACAGAGAT GACCTTAATA
 1951 CATACGCTGG TGGAACAGTT GCTTCTCACC TGTTTTAGAA CGTTCTCCAC
 2001 CTGTTTCATAG TCTTTAGATA CATCAACAGA AATACACAGC ACAACCTAAA
 2051 AATGGAAAAAT GAAAGAACAT ATTATAACCT CAGTCCAAGA ATGGTTGGCC
 2101 CCAAGTCTTA CAAAAGAAAC TGCACACTGC TTCATGAGGT CATATTAGGG
 2151 ACAAATATAG AAAAAACAA GACTAAAAAA AACTGATTAG TGGCACAGAG
 2201 CTAAATATGC CTAAAAAGTG ATTTAACGTT TACTCTTTGT CTGGGAACAA
 2251 GAGGTTATGG ATCTTAGTTT GAACGATACA GGAAAATGAA AATAGACACT
 2301 GGCCCAGGGG AGAATAAATA AATAAATAGT AAAAAAAGA GAGACAGCAA
 2351 TGTCTTAATT TTTGTTGCAG CTGGAACGTA GGTATTGATT TTCTTTAAAA
 2401 CTGCTGATTA CATTAGCAA CTTGATCTCA GAATCTAAGT TTTGAAGCAC

Fig. 1-1

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2451 CTTCCAGTCA ACTTCCAGCC AAAGGAAGCA CTGACTTTGG GGTATCACCA
2501 ACTGTAAGAT CACTGCCAAC TCCAGCTTGG CCGGGGATTT ACAAAGAGAT
2551 TATCCCCTCT GCTAAACAAC TATCAAGGTT CTGAGGCAAC TCAGTATCTT
2601 GAAAGGAGAA GCAATCACAT ACCACAATAG AAGTAGAGAC TCCTGTATTC
2651 TCATTCTGAT TTCTACGTCT TACTTTGTCC AATTCCCTTA AAGCTGGTTT
2701 GAGGTGAAAT AAAGTCATCA CCGGATTCTA ACAAGCGTCA TCAGGGTCAC
2751 TTGTCATGAA GCACGCCAAC AAAAATGAAG AAAAGCTTAC CAAAGTGTA
2801 CTAAGTCTT TGGCAGCTAG TCATTTGTCA GTTTTGCCTC TGGTCAGACT
2851 GCAACACTTC CCAGCTACAT AAACAGAATC TGCTTGCCAT TCCTGTGCAG
2901 CAGGTTGGCT ATTCCTGCCT TCCAGCACTG TGCATAGCTG GACATCGGAG
2951 TAAACTTGTG GTGCAAGTTA ATGGTTGGCC AGCAAGCATC TCCCCTTAGG
3001 GCATTTTTAG ATTTTAGAAA TATTTATCTT TTACATAAGT TTGAGAACAA
3051 AAATAACAGC TGAGCTAAGA TAACACTGAT TTACTATCTG GATGTCTTTA
3101 CAAGATCAGC AAGGTTAAAA ATCACAGTTC CATACGAAAA TTGGACATCG
3151 GACCACAGAT CAGTTAATCA TACTGAGAAC AATATACTCA GGAACACTA
3201 AAGCTTGTAT TGGCTACCAG CACATTATAC AATTCATCTT TTTGCTTCTA
3251 TTATTGTATT TCCTTTCTGC TACATTAAGT TGATTACCTC CAGTCCAGAG
3301 CATGCACTGT GAATGTGGTC CTAATAAACA GACTATGCTG CCAGGAAGTC
3351 TAATATCCTC ATTCCAGTTT CTCGTCTTTT GTTCTAATAG CGCATTATCT
3401 GACCATTCCCT AAAGCATTCTG TTTCTCAATA AAAGCTCAAC TCCACTCCCA
3451 GTGAAGTAAC TAGGAATATT CCATACTGAG AAAGTGATTT TAACCATTTT
3501 CCAAAAAAAT TATGGGCAAG CATTTCATTT CACTGCATCC CTTTATTTGT
3551 AAAGGCTGCA CTGTCAGCAT TCTAAATAAA TCACATACAA ATGTATTTCA
3601 GAGAACACGT GCCAAATCCA ACACCTAAAG GTACGTTGAC ACCAGAATCC
3651 TGGTTCTCAA TGCAACTTAG TTTGACATAT ATATACATGA GCAGAATGCA
3701 CAGCATATAA TCATGTAAAA ACTGGTATTT CCTCTGGATT TTTGCTCCCT
3751 AGCTTGGCAT CTTGCAAATG TAACAGCCTC TGTGGTCTGG CAACCCATCC
3801 CAGACAATC TATACTTTCA GCAATCTTCT TGTACAGCCT CTGTCTCTTT
3851 CGCTGCCCTC ATTTGTCAGC TTCTTATCTG CCGTTCTTCT TCTATTTGTG
3901 TTCTTTGAAT TTAGAACAGG CAGACTTCCC TGTGACAATG ACTACAATC
3951 AACAGTAGGT ACACGAGGGC ACTCCCCTA CAGCCAGATG AAGTATGGAC
4001 AAGTCTAAAT TTGCTACTGC TAAAACAATC CTGTTTAGCT CACACTGAAG
4051 CTTGTTCACT CTTGAACCTA CTGAAATTTT AACTGAAACT CTTGCAGACA
4101 CATACCTAGT ACTCTTCTTA AGAAAACAGA AATGTAAGTC CACATCTGTC
4151 AAGCTTGGAC AGATTTTTTAA CAAGAGCATT GTGACAGTGT TTGACAAAGG
4201 ATCAAAGTCA TTGTCAACCC TGGGAAGAGA CTAGAGCAAC TAAAGGGAAA
4251 CCCTTACTGG GGTTTATTTG TTTTAAAAG GGGACAAAAC GTTGCTCCTC
4301 CTCACCTCAC ATGACTTCAT ATTTCAAGAT AAATTTGATC TGAGTAAGGC
4351 AACATGCACA GAAAGAAAGA TCACCTTGAA CCATTTGACA GGAATGAGCA
4401 AAGACAGAAAT CTTGCTGAGT GTTCTTGATA TCTTCATTTA CATCGGCTAG
4451 TACTAACATT GCTTCCAAAT ATCCATCTTT CTCCACTGCT TCTTTTCAGG
4501 AGAATATCCA ACTTATCCAT TCACCAGATT ATTATACACC CAATAGACAC
4551 CAAATCCCTT ATCACAAACA AATTGCTTGC ACTTGTAATA AAGAAAATAA
4601 GAACCAACTA CTGGAGCACA AGAGAGAGGA AATCAAAGAT GCGATGGTCT
4651 CAATGCTGTT TCCCGTCTCT TTTGGATTAT GAGTATTAAG AAAAAAAGT
4701 TGTAGTATTT CATCTTGAAG CTGTGTTTTT TTGAACACAG AAAGCTGCCC
4751 TATTTTAAAA CATAGCAGCC CAGCAAGCAT TAATGCACTC AAACAGTGCA
4801 TTAAGCGTGA ATACATTATT TATTTACCAA AGTACCTCCA GTGTTTAGAA
4851 ACCTCAGTGC TTTGCCAGGA AAACAGCAAT ACACAGCACA ACATAGGGAA
4901 TGAAATCTGA AAATAAGTAC CTAAATTTTA TTCCCCATTA CAATTGCTGC
4951 ATTTACGATC TCTCGAAGAG AAAGTTGAAA AAAGTAGGTT ATTCTCCTCA
5001 ATCTTGAACA ATACAAACAC TTATCAAGTG ACAGCAAATT GCAGCTATCA
5051 AAAAAAATC TAATACACCT ACAGGTGAAG ATACCAATCT TTTTCTCTGG
5101 GAAAAAAGT TAGCATACTA ACCAGGCAAC ATCAAATGTA GCTGAGTTTG

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Fig. 1-2

5151	GAACATCACA	CGTAGACAGA	TTGGAATTTT	TTGAATTCAA	GTGAGGCCTC
5201	ACCTATTTTT	AATCAAACAG	TTTGGTTTTA	AAAACCAGAC	TACTGAAGCT
5251	ATGTTGAAGC	GACTACCTTG	AAACACAACA	GTTATAGGTA	GCAGCGATCT
Q gene exon 2					
5301	TACCTGCTTG	TCATTAACAG	AGTACTTTTC	TATTTCTCTC	TTTGTCTGTA
5351	ACAGCTTGTT	CTGAAACGGA	TAATAAGAAC	AGCTAAAGCA	CCGCAGTTAT
5401	GAGAACACAT	TTGTCTTCAG	TATTTTCGAGA	AGCCCTAGAA	ACACTCTCTA
5451	AAAACAAGAA	CATTATCATC	AGCTAGCGAT	AACGCTTTAC	TATGTTTCATC
5501	TTAGAGGTTT	ATGAACGTAC	AAAACATCAA	CTCCATGCCA	TAGCAATGGA
5551	AGAGTTTTAA	GGCAAGCTCA	TCACAACTG	CATGTTAGAT	TACACTACTT
5601	ACAAAGGCAG	CCATCTCTAC	TCTGCAAATA	CATCACATTT	AAATTATTAG
5651	GATCACCTTA	AAGCATACAG	TGGAAAAAAA	ACCAATGAGT	AATTATCAAT
5701	TCCCAAATTA	CTCCTCAACC	ATACCAATTT	CATTAATATA	AGGTAGCCAG
Q gene exon 1					
5751	CAAAAATACA	AATACGCTTA	CCTCATCTCT	TGCAATCAGT	GTTATGAAAG
5801	CTCCTTGCTT	ATAACATTCA	ATAGCAATAC	ATTTTCCAAT	TCCACTGGAG
5851	CCTCCAGTAA	CCTGGAAGTT	ATTTGAAAAG	TCAGTTAGTC	CGTTATTCTC
5901	ATCCCTACCC	CTGTATCATA	ACAAGTCAAA	TCAAACTCT	AAAAGTGTAC
5951	TGAGATTCAA	ATATCACCCA	GTGAAGTATG	AACACATGAG	ATATACAAAA
6001	GTTTCTTTAC	TTACTGAGTA	CGAATGGAAA	AATGAAATCT	AACTACCTTG
6051	TCAGGCAACT	CTCTCTGTCC	CAAAAACCAG	CTTTACCTTA	ATGGTATTTT
6101	TTCCATATTT	CTTATGTCAG	GCTCACTTAG	ACCCACTCTC	ACGTGCCTTT
6151	GATTAACCTA	TTTTTGAAGT	ACGGTAATAG	TTATAAGTTT	GCAATCACTA
6201	TTAACATTAA	GAACGCAATT	ACATCCTGTC	CCTCCATGCC	AGGCTACAAT
6251	AAAATGCATA	AAAAGAGCAA	TCATAGCTTG	TCTGCCAAAA	ACACCGTGTA
6301	AACAAACACA	ATTTAAAAAG	TTATCTTCTT	TCTTATTAAA	TAAACATCCT
6351	TAATTTGACA	GCTGGCCCCC	TGCAGAGCAC	GTCTCACAGT	TCACATCTGG
6401	ATGCTGAACT	GCCTCAATGC	CCTTCTGTGG	GGATCCCAGT	TCTAAGCCTC
6451	CATAAGCCTT	TCCTTCTTCC	TCTAAACCAT	AACTCTCAGT	GGTCTCCCAT
6501	GCAAAACGGG	AATAAACAGT	TTGCCTGCAG	ACAAATGCAA	GGCGATGGCT
6551	ACAACCCCCC	ACTAATAAAC	AGGTTAAAGT	CACCTGAACA	CCCCCTCTC
6601	TACCTCCAG	AAAATCTAT	TTGTGAACTC	CATTTAAAAC	AAAACATAGA
6651	TGGTGACCCA	ACTGCTCTTC	TTCTTATCGC	AAATAAAACT	GTCATCCTGA
6701	TACTGACTTT	TGGTGATTTG	TTCATTTAAA	CCCAGCCTCA	GTTTGTACGT
6751	GCCTTCAGTC	CTTAAACACA	CAGAGTTGTA	TTTTCCTTGT	ATGGCCAAAT
6801	GTGTTGAATT	TTCTCCTAAG	AGCGTATCAC	TGAGAAAAGA	TTGGAATGTT
6851	TCATTGATGA	AGGGAGTTCT	GAAATACAGG	CTTAAATATT	TGAGAAAGAG
6901	ATTCATATTC	CTCTGGAAGT	TGTCATTTCT	GTTCTTTATC	AAGACTTCAG
6951	AGAAAGTAAG	GTATCACCTC	TATTTCAACT	ATGAGAAATG	GAATGCACTG
7001	AGCCAATCAG	TGGAAGAGCA	AAGGCTTCCA	GTCTCATCTG	CACGTGCCTT
7051	TGTTTTGTTT	TCAGGCTCAC	TACCCTCAAA	ATTCTTTCAT	ATTCTGGGG
7101	GCAGTAAAGT	CAAAGAGTT	AGAAGTACGC	TCCCATGAGT	CACCAAGCTC
7151	TTCTTTCCTA	CGAGTGTTTC	ATCACAAACC	TTCAAAGAAA	ACAGCTCAGT
7201	ACACAAAGGG	TGATCATGTA	ACCTCAGCAA	ACTTATTTTC	AACAGATTCC
7251	ACAGTTTTTG	TCTAATTTGT	CTGCTGTCAC	CAGTGGGTCA	AGAACTTAGA
7301	AAGACTAACT	TCAACTTAAA	CAGAGTTTCA	TAGACTTCCC	CTATTAGAGA
7351	AAGTCGCTTC	AAAGCAGCTT	CTAATCGACT	CTTTACTACG	CTAACCTTTG
7401	TGAATGACTT	TAAGATGCAC	GTTCTGTTCC	GGAGATGTTT	AATGCTGTTG
7451	CATTCTGAAT	AAAGGATGGC	TGCTTCCTAA	GCAAAATTAAG	TCTGTAAGAA
7501	CGAGTGTTAA	CGTTTGGGAA	CCCTAGCATC	ATTTAATTCT	TCACAACAGA
7551	AAGAAGTTAA	ATTTTTAGTT	CATTCCCAAA	GCACTTTTGA	AGATTCCAAT
7601	ACATCTCTAG	AAGGATTAGG	AGATTCAAGT	TGATGTATTC	AGGCAACCT
7651	CAGTTCCAGA	GCACTCATGA	GCTGCCTTTA	CAGATTTTCA	GCAGCAGCTG
7701	GTACATCAGC	ACAGGAACTA	ATGAATGCAT	GTGGAAGACT	GCTCCAATTC

Fig. 1-3

7751	CCATTTTTGG	CACAGCACTG	AGGCACAGCT	GATTGCTACC	TGTACAAATT
7801	GCTAAGTGTC	ATGAACAGGT	CAACTACAGC	AGTGTTTGAA	GGTGAAGGTG
7851	GCATAATGCC	TATGGCTTGT	TAGACAACGT	TAACGTTTAC	TTCGGAAAGA
7901	CAAGGTCTGA	AGTCAAGCAA	GAAAGGGAAG	TTTTTATTTG	CAGTCATACC
7951	CAAGAACGCT	AGATAGGGCT	CATGTCAGAT	TGGTCAGTGA	CAAAAAGCAG
8001	AATCAGTTAG	CTAGGAACTT	CAGCATTTAG	GTGGAAGGCT	GTTACTAATA
8051	CGTTGGAGGT	TGTTACTAAC	ATGCACCACG	AGATGCAATG	TAACAGTAAA
8101	GAAACAGAAC	AACTCATCGA	TCAATGAGTA	AGCACAATTC	CAAATCATCA
8151	CAACTATCAT	CAGAAGCGAT	CAAAATGAAG	ACTTGATATG	CTCTTTCCAA
8201	CAGGGCTTGC	TAGCTTTTAC	TGAGCAGCAG	CACAGGATGC	AAGCTGGCTT
8251	CTTGCTTTTA	GACAGTACTC	TAACAGTAGG	CATTGAGTTC	CACTGAAACA
8301	GAACATCCCC	GTAACCTGCT	CCAATTGGCT	GGTGTGCCTG	ACTGGACTCC
8351	AAATGACCTC	TTCCTGAACC	ACCCATGTGC	ATTTAAGCCA	CAGGTCACGC
8401	TGCTCCCAAT	GCAAGAGCTA	CAAAGCTGAG	ACACGGAGAT	GGGTCAACTC
8451	CAGGAACACC	CAAAGCCTGC	TGTCCTTATC	TGATGGGCTC	TGCAGGGAAA
8501	TGCTGAAACT	ACTCCTAGTC	CTGAGATGGC	CCTTACACCT	GTGGCTTGGG
8551	CATACTGAAG	CTTAACTATG	TCCAAGTTAA	AGGCCCTGCT	CAAAGTGAAG
8601	GGAAGACAAT	CACAGGCAGC	AAATATCCTT	ACATTCCTGG	CATAGTTAGC
8651	CTATGAAAGC	AAAAATACAT	TTAAAAGCAT	TTTGTTTTAC	TAAATAAGCA
8701	AAAAGTATG	CTTGAGTCAA	CCTGATAGCT	GTGAAGTCCT	TCCTATTTAA
8751	CAGTGCCAC	TGAGATTACC	AAAACACACA	GCAGATATGG	AACAGGAAAA
8801	CACCCCCACA	AGATTAGATC	AGTAATTTGG	AGTTCTGTGG	AGCTCCATTC
8851	CTCTCTAAGC	AGAAGAGACA	CCTGTGGTCT	CGGTCCCACT	CTAAAGCATA
8901	CCTCATGTCA	CACAGCAAGT	GACTCCAGGA	GAGGACAGGA	GGGAAAAAAA
8951	CCCCAACAAA	AAAACAACCA	CACATTTTCT	GCCTCAGATT	TCTGTCTTGG
9001	TACCTCAAAC	ACCTAGCTCT	ATTAACCATT	ACAACTGTTA	GGAGCAGAGA
9051	GAAATAGATT	CTACAAATGA	TTAAGTAGGG	TGTGAAAAAA	TGCTGATTTA
9101	AATTGAGAAT	TCAACAAGTA	ACTGCTAGGA	AACAATATAC	ACAGTAGCGT
9151	CCAAACACAT	TCAATGACCC	TCTTTAAGAA	ATACTACAGG	TATTCTCCTG
9201	CACATATGAA	GGGGGAATTA	TACATACAGA	TCACACAAAC	AGATTTTGAC
9251	TTTTTCTGTG	AAAACACTTC	AAGGAAGTTC	TTAACAGTGC	TACGGTCTTG
9301	AATATTTTCA	TGACACCTTC	TGATAATTTT	AGTAGCAGAG	AACACTCACT
9351	CCCATTATAC	GATGCAAGAA	TTCACCTTGC	ACATGTGATG	TGTACAGCCT
9401	TCACAAGTAC	AGTTTCTAAT	TTACAAAAC	ATCATCCAAT	GTTTTTCTCT
9451	ACACAATTCA	CCCAAACATT	TGAAACCCAA	ACATGCAAGT	CTAACAGCAT
9501	CAGGGTTATT	AGCAGCACCT	ACATATCAAA	AAAAGTAAAA	CTCTGAAACA
9551	ACTGCTCCAT	GTTTCATGTG	TTTGACAAAA	TGCTTTCAGA	GCATAACTGA
9601	AGCCATAGTC	AAACAAGTGC	TTCTGCCAGA	AGCAATGCCA	CTGAAGCTGA
9651	TCACCCACAG	ATTTGTACCC	TGATGCCAAT	AAATACCTAC	AGCCTTTCCT
CR1-GG					
9701	TCTATTGGGA	TATGAACACA	GTTAATCCTC	CAGAAGGTGG	TGACGCACTG
9751	GAACAGGTTG	CCCAAGGAAG	TTGTAGATGC	CCCATCCCTG	GAGGCATTCA
9801	AGGCCAGGCT	GGATGTGGCT	CTGGGCAGAC	TGGCCTACTG	GTTGGCGACC
9851	CTGCACACAG	CAGGGGGGTT	GAAACTAGAT	GCTCATTGTG	GTCCATTTCA
9901	ACCCAGGCCA	TTCTATAATC	CTACGAATAG	TCATTTTGAG	ACCATCACTT
9951	ATGTCAAATT	CAGGTTACGT	GGCTAATACA	ATTAGCAGTA	GTGGCTGTGA
10001	GGGAAGATTT	CTCCAACAAG	ATTATTCTTT	GTCATTTTCA	TTGTGAGCCA
10051	ACTGAAGTGG	CTCTTTGAAA	AAAGAAGAAC	CAGCAGAGTA	GCTTTGGAAA
10101	AAGCGTAACG	ACACAAAGAA	AAGACAACAC	TCGGGATAAT	CAGATTAAAA
10151	ACAAACAGGT	GGACAATACT	CTGGGATAGA	ATACACTGAA	CATTTTGTGT
10201	CTTACTATTC	TGTTTCCACG	CAAGCACTGC	AGTACCCTTA	CCCTGCTTCA
10251	CCTTTGCTTT	TACACAGTAC	AGAAGGATTC	CTGCTTAGCA	AGAGTTACCG
10301	CTGTGGGAAG	AACCTCAGAG	AGCCTTCACT	CACGCTCTAC	TATCTCCAGC
10351	AGGACATGAT	GCTGTAAAGC	CAGTTACAAT	ACCCAGCAAT	ACCTATTGCA

Fig. 1-4

10401	TCAAGTAATT	TGGGAACACT	GTTGCAACTT	GGACAGCTCC	AAGCCGGGAC
10451	AGCTCTATCC	GCAAAGAGCA	GCCCTAAAAAC	AAATAGGCAG	ATAAAAATGA
10501	ACACAAACAA	ACAAGGCACC	ACACAGAGCT	CAAAAAAATC	CCAAATGCCA
10551	AGCAGCTGTC	AATTCCCTCG	CACCTCAGAG	GTCTAACTTC	TGCATTACAC
10601	CCAAGTCCTG	TAGTAACCAA	GTCCTGTAGG	CAGCCTGCAT	GCCCTACTCA
10651	CCCCCAAAA	GCAGATTCAG	CAAGCAAAACA	GCACAGCTCC	TCTACACGGA
10701	GCACACCACG	GGTAACTACA	GCTAAGTCCC	CAGAGCTGAC	TGAAGGACCA
CpG island					
10751	CAGCCGCCCC	GACCCGCTCT	CACGCACCCA	CATGCTCCAC	ACACACCTGC
10801	AGGCCCTTGG	CTGCTGCTCC	CCATCACGCA	CCCGCCCAGC	TTTCAGCGGT
10851	ACGCTCCTGG	GGAACCGTTC	AAAAGCTATA	TTTTCCCGAA	TAAACCCTCC
10901	CAAAGGCTCG	CTCCTACACA	GCTGATTACA	GACAAGCCAA	ACGTCGCTCG
10951	TGGACACGGA	TACCCGCGCT	GAGTGCCGCC	TGACCGCTTC	CCTTCGCGTC
11001	AGCCCGCCCG	TTTCCTCAGC	ACGGGTCGCC	TTTCAGCCCG	TGCCTTCCAC
11051	CCTCGTGAGG	AGGGCCGCAC	TCCAGCACCT	CGGCAGATGC	AGCGGGGCTT
11101	TCCCGGGGAC	ACGGCGGCCG	CGGCCTCCCC	GCTCCCTCCT	CCCGCCCAGC
11151	GCCGGCAGCG	GACCGCTCCC	CCGCGGTCCG	TCAGCCAGCA	GCGGCCGGGA
11201	TCGGGGTGGG	GAGGGGGAGG	CGAGAGGCCT	CGTTCGACTC	ACCACGACGT
11251	GTGCGCCGGG	CAGCTTGAGG	GGCTTGGGGC	TGATGAGCGG	CGACACCATG
11301	TAGAGGAGAA	GGACGATGGC	CACGATGAAG	GCGGCCGCCA	GGAGCAGCAT
11351	GGCTCGGGCC	GGGCTTGCCG	CTGGGGAGGG	GGCGGCGGGC	GGTGACAAGG
11401	CCCCTGGGGC	TGCGGGAGGC	GCCGAGCGCG	GCGCGGCCCG	GCGCGGCACG
11451	GACAGCGGGA	GTAAGAACCG	TGCCCGCCTG	CGCCGCGGCG	CCACGGGGCC
11501	ACAGGGGAGG	GGGAGGAGGA	AGAGGAGGAG	GGAGGAGGAG	AACACGGCCG
11551	CCACTCCGCG	CCCTGATTGG	CTGGTGCGCG	GGGCGGGCGC	GGCCTCGCGA
11601	GCGGGGATTG	GCCAGTGAGC	GACGGGAAGG	AGCTGGCGGA	TTGGCCGAGA
11651	GGCGGGACGG	CGCTCGGAGA	TTGGAGCCGC	AGGCTGTTTG	CAGGGTCACC
11701	GTTGGAGGCA	AAGGGCGGCG	GAGAAGAGAG	AGTTCCTCCG	GAGAAGACGG
11751	GGTGCGGGAC	GGCGCCCCCT	ACGGTCCCCG	CCTAGGGCGG	GTGAGGCGAG
11801	GAGTGAGGTA	GGCCCCGCCC	CTTCTCGTCA	CGTGGGGCTT	CCCGCCGAAA
11851	GGAGGGGGCG	TGGCTCCGTG	AGGTGAGAGA	CGGGAGGCTG	CGGGCGGCGT
11901	TCACGCTCTG	GAACGCGAGG	GCAGCTGTTT	GTGGGGAAAA	AAATGTGTAG
11951	AAGCGTGGTT	TCAAAGCATA	ATAATAAAAG	ATTAATAAAA	ACGAAAACGT
12001	CTTGCAGCTC	AAATAAAATG	ATTCCGTGCC	TACGTTCAAT	ATTTCTTTCG
12051	CTGTTTATGA	CTGAAAGGAA	CTCCCTGAAA	TGATTTATGT	TGTAAACGCT
12101	GTGCAGCCTC	TGACTTGTAG	AAGGGAGTTT	GCAGCGTACG	CGGCTTTTACG
12151	GCCTCGGAGA	GATTACGATT	ACGGGCGAGA	GGGCGTGCGG	AAGGGTGTGA
12201	AGATAATGCA	GGAGATGAGA	TTGGAGCGGG	GAGTAGGCGG	AAATGGGAGC
12251	AGGGCTGCGG	GCAGGGATTA	GGCAGTCGTC	AAGGGGAGAG	CAAAGAATCT
12301	GGAACAAAAG	AATCCAGGAA	TTAGTTCTGG	AATGGGATTG	AGCCGGGATC
12351	GGGCTTCCGT	GACGCTTTGA	GAGTGGTGCT	GTGGGGTGGA	GGTGTGAGGA
12401	AATGAGAGGA	AGAAAGAGCG	CGTGCTGAGG	TAACAGCTGC	CACGGCAAGG
12451	GTGGGGAGAG	AGCTGACAAA	GTGGTGTGTC	CAAGGAAAGG	CGGTGTGGAA
12501	TCGTAGGCAT	CCTTAAGGCT	GGAAAGGGTC	ACCAAGTCCA	AGCACCAAGT
12551	CCAAC TAGCA	GAAGTTGGTG	TAGGATATGG	ACTAGGAACG	CTGCAAGCAC
12601	AGATACCGAC	TTCAATCTTT	GCATACAGGG	CAGTGTATGT	GTTATCTTTT
12651	GTAGAATATT	AATTAAACAC	AAAGGAGGAG	ATTGATAATG	TAATAGAGCC
12701	TATTTATAGT	TATCTAGTGC	AGAATATGGC	GAGACTTGAA	AAGCCCAAAT
12751	GTCAGCAGCA	TGGAGATAAA	GCAGACGGAG	ATAAATCCAT	CTTTCACAAT
12801	GCGATATCGC	TTTCAGAATC	AACATGAGGC	AAGGGCATGG	ATAAAAACAA
12851	TCATCTGCAG	TTAATTTCTA	GTAAATGAA	GGTTAAACAT	GTTGGTAGGG
12901	GGCCTCTAAA	AACCTCAAAT	GCATGATATG	CTCCTGATTG	GTCACAGTTA
12951	GGATCACATA	TTACTAAATA	TTTGAGAAGC	CCTTG TAGAT	TAACGAGGAA
13001	TCCCTCGGT	GAATTTTATG	CAGAAATCCA	TACTGTCTTT	TCCTTTTAGC

Fig. 1-5

13051	TAAGTGGCCA	CTTTACAACC	GTGTGATTGA	CAATCCAGGT	AGCGTCCACT
13101	CACATTTTGT	TCCTGGGGCA	GTGAAGTGTC	ATGAATTTAT	CTCCAAGAAA
13151	AACATTCAAA	AGTGAAGACC	TTGTGAACTG	CTTATAACTC	ACCAATGTAT
13201	CGCCACAGCA	GTAGGTTTTT	GACTCTTTTT	AGGTATGCCA	GCAGGCACTG
13251	AAGTTTGCCC	TCCTGAGCTG	TCTGCTGTCT	GGTTTGTATT	TGTCTCATGT
13301	GACCTCATTC	ACTGAGGAAG	TGCGTTCCTG	ACACACGGGA	ATGGTTTGCT
13351	ACGAAACTCT	TTTCTCAGTG	ACTGTGGAAC	TGGAAATTGA	ACCCTAAAAA
13401	AAAAAAGTGT	TGAAGCCCTC	CAGTCCAAAC	TTTGGTTGTA	CATAAAGCAG
13451	TATTTAATTA	ATCTGACCTT	GATTAACAAC	ATCAAAAAGT	GTAATTTTGA
13501	AGCACAAACT	GACCAAGGTA	TGTATGTACC	TTCGGGATGG	GTAAGAAAAT
13551	AAAAAGGTTA	ACACATGCTA	ATTGCTTTGC	TAATTAATCC	TTAGAAGCAG
13601	CTTCAACACA	ACAGCGATGT	GTTTAGAGAA	GAAAAACAAA	TACAGGTAGA
13651	TTAAAGCGTC	CAAACATAG	GACCAGCTGT	GGTTTTCTGC	TTCTCTCAGT
13701	CTGTTTCATAT	AATCTTTCAA	CAGACGTTTG	CAGTAACAAT	GTTGTGGGTT
13751	GAGATAAATC	AGTATGAACA	AAGCATGGCA	ACCGAAGTAA	GAAAGTAGTC
13801	ATTTAAACAC	GGAAACAAAT	GTATGAATTG	ATAATATTAC	AACACAAGTG
13851	ACTGATACTA	GAGGTGTCCT	TTTGATCTTC	TTGTTCCCAA	AGCATAACAAG
13901	GTACACACAG	AAGAGACACA	GGCTGTGTTA	AGATGCCATT	AAGAGAAGGC
13951	ATAAAGGTTT	GACAGAGCAG	GTAGTGAGGT	TGCAGCCTGG	ACAGACTTTC
14001	TTATTGCACT	TGAGTACTCA	TCTGCTGGAT	TTTCTGGTTG	TGTCATATTTC
14051	ACGTTAGGGA	GAGAGGAGGG	AAAAAGAGCA	GGATGCGTAG	GCTACTCAGT
14101	GATTAAACAA	AAAAAAAAAAG	CTGGAACTTT	CTTCATGTGA	TTTCCATCCA
14151	GTCAGTCCTT	CTGCTTTTAG	AGAAAGCAGC	ATGAAGGAAA	AACTTCAGTA
14201	GCCAAGGAGA	ACAACTTTTT	CCTTCTGTTT	TCCTGAATTA	ACTTACTTTC
14251	CTCTCCAACC	TTCTCCCTTT	TGTGTAGCAA	GCATAGGTGT	TCTATGCTCA
14301	TTTCTTAAGA	GGTCTGTTGC	AGTAATCATC	ATAAGACATC	AAAGGCATGT
14351	TGGCAGTTCT	TGGATTCCCTG	CAAAGCTTCA	AGATTTAGAA	TGATGGCAGT
14401	CTAGGTGAGT	TGTTCCCTGGT	CAACAAGCTG	TCTTGATCCC	GTGTCCCAAA
14451	TGAGAAGAGC	TAATAGGGAC	ATAAGAAGCTG	AAATCAGAAA	AGGATTTACA
14501	TAACATGCTG	GCAGTAGAGG	AGAATTGGGC	AAGAAATAAT	GATCTGCACA
14551	TGGTAGTGAC	TAAAGCAGTG	TGACTGAAAT	ACTTATCACA	CCCAGCTGCT
14601	TGCCTTGCTG	TTCTTCCCCA	AACAAACAAG	CAAATCCCTT	GTAGCTGAAC
14651	AATAGCTTCT	TTACTGGTCC	ATCACGCTGG	AGAGATCATC	AGCTACCCCA
14701	TGCATAGCAG	GGTGAAACAG	CTCCAGAGC	ACTGTGCAGG	TCAAAGTACT
14751	ATATGTACCC	TGTCTGCTGG	AGTGCTATCA	CGGTGATCTT	CTGGGTATTTC
14801	CTAGAAGGAG	ATTTCCCTGTA	CTCCAAGCT	CAACGTATCA	TCCAGAAAGT
14851	GCTCGCCTGC	AGCAGGGACG	GGTTCTGGCG	ATCTCTGCAG	CTTCCAGCTA
14901	TGCCGCATGC	CCTTATCGCA	ATGAAGCTCAG	GCTGGGCTGA	TGGCCCAGGT
14951	GCTGGAGGCT	GCCAGCACGC	AGGCAGGAGG	TGGTTATAGC	AGCTCAGGCT
15001	CAGGTCAAAC	CAAGGCTTCT	TGCTGGGGCA	GAGGGGACTG	ACTCTGTGGT
15051	GCAAAAGCAG	GTAGTATATA	TATATGTATA	TATATACAAA	GCCCAGCTAC
15101	CAGCTGAGAG	TCCCAAGGCT	GCTGCAGTAG	TTTTGCAATG	AGCACACAGG
15151	AAACAAGAAG	ATCGCTGAGA	ACACTGCTGA	AATCAGATTT	CTGTCTTCAC
15201	ACAGGTCAAG	CTGATTTAAC	TGTTTAATGT	AATTGCTGCA	GTTGCTTGGA
15251	AAAAAAAAGA	AATAGTAAAA	CCATGTCCAA	AATGAACCAT	TCATAACTGG
15301	TGGCCCATTA	TGTGTCACAG	CCGATGTTGT	GCTGAATAAA	TAAGTGTACA
15351	GGTATTTTAT	ATATTGAGCA	ACATATTTAT	TGAAACAAAA	ATAATTTACC
15401	TCAAACCAGC	GGTAAAAGGA	AGTCTTTACT	GTCTAATTTA	AATAGGCATA
15451	AGTTAAACTC	GGGACTGAGA	TGATCTTGAA	TTTCATTTGG	TGCCCATGGT
15501	TCTTTTTTATG	TGGTACACCT	GCTTACACTT	ACCATCACAC	TGGAGCAGTT
15551	TGCTTTTGCC	ACCCGAATGT	CAGACACTGC	TATAGATTTA	CAGTAGCTTG
15601	GGGGGGCTGC	AGGTTGGAAG	AGGGGGTTGA	GGCCTCATCA	AGTGCCATGG
15651	CAAACACCC	TCAAGTAAGC	ACGGCTGGAA	GCAGGAAGGA	TGAGGGAATG
15701	AGCTGCCATT	TCCTTTGCGC	TGGAAGGATC	ACTGCTAAAA	CTTGTAATAA

Fig. 1-6

15751	TCTGTTAGAA	ACAAACAGGG	ACGTTCACTT	TGTCCTGTGA	TGCAAGAGCA
15801	CCCATTCTGA	ATTTTTATCT	CCTGCAAAGT	TGTATTTAAG	CTGATGTTTA
15851	CCGTGGACGT	TCGTGTTACA	AGATAGCCTT	TGATACTATC	AATAACAAGT
15901	CCTCTTTGAT	GAAGTAAAGC	TACAGAGTCA	CAAAGCATGC	ACTTGTCTGA
15951	CCCTTTGCCT	GGCTGCCTGT	CCAACCACGT	TGCACCACTA	CACCCAGCCC
16001	CACGAGACCT	GCTCCAGGGC	CAAGGGAATT	GAGCACTTAA	GGGAAAGTGC
16051	TTTGTACAAA	ACATGGCGCT	TATGAGTTTG	AAAACGTAGA	TCCACCAAAA
16101	CCTCCTCAGG	CACGATGAGT	ATATTTTTTC	TCCACTACTT	ACAGCGCTGT
16151	GAATTCTAGT	TAAGGGCGTT	TTGATTCCCTA	AAGAATTTTT	CCTTCTAATC
16201	ATAGACGTAC	TCCAGTCCTT	ATTCCAGAAG	GCTTACTCCT	TGTATTTTGA
16251	AGGTCTTATC	CTGAAATTGG	GATGCAGAGC	CATTCTGAAA	ATGACAGTAT
16301	TTTAAGACTT	TGCTGCACTT	ACTCTGGCTT	CCCACATACC	TTCCTCTTGC
16351	AACCTTCCAC	CTCCCAGAAC	TGCAGCCCAG	CCTATCCTCC	TCTGCCAGAA
16401	AATCGGATCC	CACAGGCCCT	ATCTCACACC	TCCCGGTTCC	CCATCCTCAT
16451	GGCAGCTGCC	CTCTTTCCCA	AGGCACTCTA	TGGAGCAGCA	GAAGTGTCTA
16501	GTGCACAGGG	CAAAGATCTG	CCGTTCCGAG	AGAGCAGAGA	AGCATCGCTC
16551	GGGAATCACT	GCACTGCTGC	AGCACTATTG	TATTCTGCCT	TTATTCAGAG
16601	GCAGTCCTTC	ACCTATGAAT	ATCACTACTA	CCTTACTGAA	TATATATTTT
16651	CAGGAATATT	TTCACTTTTT	AGCCAGATAG	GAAGCGGATT	TTGTAATTAC
16701	CCTTCCAGCA	ACTTACAGCC	AATTACTGTC	TCTCCTCCTG	ATTCTGTGCC
16751	AGCAATTTGG	TTGCAGTTAT	TGCTTCTCCA	GAGCGGGCAG	AATTTTTTGC
16801	TTTAGGAAAT	GTACACCTCG	AGGTAATCTT	TGAAGAGTGA	CAGGTTCTAA
16851	AGTTCACAAG	TTTGATCTGC	TTTGGGATTA	AGCTACCTGC	TAAACTACCA
16901	CACGCCATCC	AGTCAAGCCA	TTTCTATTAT	GTGCGTATGG	CTGATTCTTA
16951	TCACAAAAGA	TCAAGTTAAT	GATTTGCAGT	CTTCGGCAAG	CCTCTGGTTT
17001	CTTTGAACTT	GCTTTTTGTA	AGCGATATTC	TCGGGTACTT	TTTGTGCTTG
17051	TGAAGCTACT	GCAGTGCTCT	GGAGATTTTC	TTTGTGCTCC	TGGCTGTCAG
17101	AGTTATCCAT	TTCTAGGCCT	GCTTGGCCAT	CCCCATAGCA	CGGGGAGAAC
17151	CGTACTTTCC	CATTGCCCTT	GTACCTGCAC	TTGTAAAAAC	GCTAGAGGAA
17201	CTGAAATTAC	TTCAAGTTCG	TGCCCTGTCC	TCTTTCAAAG	CCATTCTGAG
17251	AACTTTCTTT	GCACAACCTT	TTTACAAGAG	TTAAATCCGT	TTCTAGTTCC
17301	AGGCAACACA	CTTGTCATAC	ACAGCGCTGG	CAAGGGACTG	CTGTTTATTT
17351	CTTGCTTGGA	TGCAATTACA	CAGCCATGTG	CCCTTGTTTT	CAGTCCCTGA
17401	TCCATTATCT	TTGGCATTTA	CTGCAAAGAA	GCTGCTGTTA	CGCAATGGAA
17451	ATTTAGATGA	TCTCTTTTTT	TTAGCTTACT	TCTCCTCTAA	CCCAAGAAAT
17501	GAGTACAGTA	TAGCCTGCTG	AATGCAAGGA	AACCTGCACC	TGCAAACCTT
17551	TCTCCCCACT	GCGTCACTAC	CAAATATGTC	AGAGTTGCTT	GTACTTCTTA
17601	AGTCTGTTTC	CATCCCCTAA	TGGCACGAAC	CGTTGCCCTC	CTGTTGTCAG
17651	ACTGCAAAAA	GGCCAGCTTG	TACAGATTTG	CCCTGTAGGT	TTGAATGGAA
17701	GAAGGGAAAA	AAATCAGAGA	AACTGCCAGC	TTTTGTTCTG	CCGCTTGTA
17751	GCTTGCTTTG	GTAAGAAAAGT	TGAAGAAATA	GGAACATGCT	TTGAAATAGG
17801	ATTTTAAAAAG	GAATCAGCTT	CTTATCTTCC	CTTTGGGAAA	AAATAGTGTG
17851	AAGGACAGAA	TAAATCAGAC	GGAAAAAGAA	AGAAATTGAC	GTAAGAGAAC
17901	TAGTCGGGCA	GAAAGGAGGA	GGTGGAAAAT	ACCCAAAAGC	AGCAGGAAAG
17951	AGGGAGGCAC	AGGTGCGCAA	TTAACACTTC	GATCAAAGGA	AAGGCCCGAT
18001	CAAAACCTTT	TTCTCCTCT	AAGAAGCATC	ACCCCTTCCC	ACTGCTTACT
18051	GCAATGAAGC	GAGCTTTTAG	ACTAAGACTC	AAGAGAATAA	CCCCAATACC
18101	AGTAAAGCCT	GCAGAACTTG	TTTTTTTTCAT	AGCTGACACC	ACAGACAAAC
18151	AAACAAATAA	ATAAATAGTA	GCGCAGAGCA	TCAGCACCGT	GGCAGTCATT
18201	CCAGCAATCA	CTTCCCCACC	GTGCTCTCCT	ATAGGAGAGC	TGCAGCACAG
18251	GTCAGCGTCT	CCCAACCCGT	GCACTTCTTC	ACGGACAGAT	TTGCATCATG
18301	CAGACCCTCA	GATTGCCCAG	GAAGAACAGA	ACTGCAATGC	CCAGAAAGAG
18351	TGTGGAAGCT	CTGAGAATTT	ATCTGCCTGC	TGGACAGAGC	CCATCTACAC
18401	CTGGAACAAG	CGGGCACCTC	TCTGTGCTAC	CAGTGCTGGG	TAAAGAAAGC

Fig. 1-7

18451	TGTGCAGCAG	CTCCTCCCTG	AACACTGGCT	ACGTTGTGAC	ATCAGCCCTG
18501	TGGTTCTGT	GGCAGCTCCT	GCGCTTCTGC	AACTACATGA	GTCTAGCTGG
18551	CAGGCCACCT	GCTTGTTCCT	ATATCAGCAG	CAGCCACGTG	CACCATGTGC
18601	ACCATGTGCA	GGGGGCCTCC	AGGCAGGTAA	AAAAAACAAA	CAAAACAAAA
18651	CATCTCTTAA	TTACAGGGGC	AGAGCAGGGC	TGGATACGAA	CAAAACAAAC
18701	CATACCAAAA	CAAGCACACG	TGTAAAGAGG	AAAAAAAAT	AAAAATAATC
18751	ACAGCTTTGC	AGTTTGTCTG	TCTTCAGAGC	AAATCAAGGC	TGTGATTAAT
18801	TCGTTACACA	TCAGAACTCC	AAGCAGGCTC	AAGCTGAGCC	GTTGCAACTG
18851	GCATTATGAA	TGGCACACTT	GAAAAACAGC	CAGGTTGCTT	TCCAGATTCA
CR1 - GG					
18901	TGGAATCATA	TCATAGAATC	ATAGAACGGC	CTGGGTTGAA	AAGGACCACA
18951	ATGATCATCG	AGTTTCAACC	CCCCTGCTAC	GTGCAGGGTC	GCCAACCACC
19001	AGACCAGGCT	GCCCAGAGCC	ACATCCAGCC	TGGCCTTGAA	TGCCTCCAGG
19051	GATGGGGCAT	CCACAACCTC	CTTGGGCAAC	CTGTTCCAAG	ATGTTAGCTT
19101	CTCTAACATC	TTACCACAAC	ATAATAATGA	AAGAATATTT	AAAAAATCCG
19151	TGATGGGTAG	GAACCTTCCTG	GCTGCAGCCT	GTGCTCCAGC	CCTCAGGTGG
19201	TGGAAGGAAA	TAATCATTTT	TAGTTGGAAT	TTTCATTTTC	TTTTTTTTTT
19251	CCTCAGCTTT	CAAGTAGGCA	AACAATTCAC	TTGCTTCCA	GAGCTCAAAT
19301	CACCTGCTGT	AGTAACAGTT	TTTCATTTGC	ATTTTATTTT	CCTCTGTGAG
19351	ATGGTGATAT	TTATAGCAAC	ATTCTCGGTC	CCTTGCTTGG	ATGACTTGTG
19401	ATTGCTACGG	TTCTTGTAAC	AGCATTGCCA	GAACAGTAGC	AAAAGGCAAC
19451	TGCTCCAGCA	CCGGTTTTTG	TAAGCCATTA	CCTGTAGACA	CTCATCTGCC
19501	TACAGTAGTA	TGAGTCAGTG	GAAATTACTG	TTTATAGTTT	ACAGACCACA
19551	TGTGACACCG	AGCATGTTTG	AAAGCAAAGT	CCCTGCCTTG	AATAGCTGAG
19601	ATTTAAATTA	GCTGAGGCAG	CAGAGGAGGA	GGGAGGGCAA	GCAAAAGCAG
19651	GTCTTGCCAA	TCCATGGCAT	GGTGCCTAGT	GATAGGTCAC	CAAGCAGGAA
19701	AGAAAACCCA	ACCCTGGCTT	CATTATCAAC	ATCAGGCCTA	TGCTCAGGTG
19751	CCCGTGACTT	ATTTCTTGAG	AAGTCTCAAA	ACACGACCAA	CACCTGTTTT
19801	AACTCCTATA	AGAGAGCTTA	GCGCCTGCTA	TGATGCAGGT	AGGATACTGA
19851	TGTTTATTTT	CATTACTAGT	GCGTGACACA	TCCAAAGAAA	TTAGCTGTAA
19901	AATGTCTAGT	ATTCTTGCAA	AAGAACGTAA	CAGATCCTGC	ACGTGGCAGG
19951	TACCATGCAC	AGATGGCACC	AACGGATGGA	TGCTGGCTTC	CTCACACGTT
20001	GAGTTGTTGT	GGAGTTGCTC	TGATGAAGGG	GAGCAGCATT	TGTGAGCATT
20051	CATTATGGA	GCTGGAGTCT	CCTAAGCAAG	GTAACGAATG	CAAAGGTGGG
CR1 - GG					
20101	AGTGTTCAG	TGGCCTAGGC	AGGCTTGGGC	AGTGAGCCCA	GGTGAACCTC
20151	ATGAAGTCCA	ACAGAACCAA	ATGCAAGATC	TGGCCTCTGC	ATTGAGGCAG
20201	CTCCCACTAC	CAATACAAGC	TGGGAAAGGA	CTGAGTGCAG	CCCTGCTGAG
20251	GAAGACCTGG	GGGGTATTGG	TGGTTGGGAA	GCTGGACATG	AGCCAGCAAT
20301	GTACCCTCAC	AGCCCAGAAA	GCCGACTGTA	TCCTGGGCTG	CATCAAAAGT
20351	AGTGTGGCCA	GCACAGCAAG	GGAGGTGCTC	CTGCCCCCTC	ACTCTGTGCT
20401	GGTGAGGCCT	CACCTGGAGT	ACTGCATCCA	GATGCGGAGT	CCTCAGTACA
20451	GGAGAGACAT	GGACCTGTTG	GAGCGCATCC	AGAAGAGGAC	CACAGAAATG
20501	TTCTATGGAA	TGGGACACCT	CTCTTACAAG	AACAGGCTGA	GAGAGCTGGG
20551	GCTGTTTCAG	CTGGAGAAGA	GAAGGCTGTG	AGTTGACCTG	ATAGCAACCT
20601	GGCAGTATCT	AAAGGGCAGC	TACAGGAAAG	AAGGGAACAG	ACTTTTTAAG
20651	CAGGGTCTGG	TGTGATAGGA	GAAGGGGAAA	TGGTTTCAAG	CTCAAAGAGG
20701	GAAGATTTAA	GTTAGATATA	AGGATAAAAT	TTTTTACAGT	GAGGATGGTG
20751	AGGCACTGGA	ACCCAGCGTT	GTGGTTGAAG	CCCTGACCCC	TGAGACTTTC
20801	AAGGCGAGGC	TGGCTCAGGC	CCTGGGCACC	CTGATCTAGC	TGTGGTGTCC
20851	CTACGCACTG	CAGGGGAGTT	GAAGTAGATG	GCCTTCAGAG	GTCCCTTCCA
20901	ACTGCAAAGA	TTCTGTGATT	CTAGTAAACA	GAAAGCGTAC	AGAACAGTGA
20951	CCTAGTCAAA	AATTGACTAT	CGGAAGGGCG	TGTGGGTAGA	GGTAGGCAGG
21001	CAAACTGTA	ATTAGGTCAA	AGAAAAATGA	CAGGACAAGC	TTATCTAATA

Fig. 1-8

21051	TTTGGGATGT	CAGTAGCCAA	ATGCCAGTAC	AGAGGATGAA	CAGCAACCAT
21101	TAAGAATTTT	TTACACAGGT	AATTCTGACA	ACAGAGAATT	TGGGGAGTAA
21151	TAATTGAAAT	ATTATTGGTA	AAACGGTATT	TTTAAAGAAA	AATCAAGGTG
21201	AGAGCACAAT	AGCTACAACA	TAGACTACCC	GCTCAAGAAT	AGAAGGAGCA
21251	ATGTTTTGAT	AATAATAAAG	TAGCTGTTGG	AAAAGCAGCA	AAATTGGAAG
21301	CAAACAGTCC	ATCAAGTGCT	TGCAATAGGT	TATGTAAGTT	GTGTGAATGG
21351	CTCTAAGTCA	GCCATGATTA	CTAGGATGAA	TCTGGTTAAG	ACAAACATGT
21401	ATGGAAGCCA	ACCATGAAAC	CACGGTCATC	ATTCTGGAGG	AAGGAAGAAT
21451	TATGCAGCAA	AATCAAGGCA	TTCCTGCATA	TTTCAATAAT	TCAGAGCTAT
21501	TAAAAAGCTC	CCTGTACGGA	TAATCTTCAG	AAATAATGTG	AAAAAATAC
21551	ATAGCGGAGC	AAATTTTCAT	TAGGAAGACA	ACTAAATAAA	CACAAAAAGT
21601	AGATCAAACA	ATGGCTCAAC	AGAATATTTA	AAGCAGTTTC	TTTGCTTCAG
21651	CTGCCAAAGA	GCAAACACG	ATCAGGTGCA	GCTGACTGAT	AGGAGCACAA
21701	AAGCTGATTC	AAGGGTATCT	GCCCAGACGA	CGTGTGCGACA	TGTTCTGCTC
21751	CACTCATTA	AACAAAAGCA	GTCAACTCAA	CTCTGAAGGC	TAGTAGTTGA
21801	ATAATAATA	TAAAATCAAA	ACCAAAACAAA	CCTTACCAAT	CTCTAAGACA
21851	GACAAAACCA	GTACTTAAAC	CAGGGAAGGG	ACAGAACTCT	GGATTGAGAG
21901	ATTAATCAGG	TGACGTGGGC	AAAGATACAG	CCAGAGAATT	TAATGAGTTT
21951	TTCTAACTCT	ATGAAAATAT	GTGTTGAGAA	AATCCACTGT	TAGTCAATGG
22001	GAAGAAACAT	CTGTGAAGAA	CAAAGCAAGC	AAGCACAGAC	ACAACCTGATT
22051	TAAAAACTAT	TTTACCCACA	GAACATAATT	TTTCATACTG	CAGTCAGAGG
22101	TAGCAATAGC	ACTAGAAGTT	AGGAAAAAAA	CGTAGGCCAA	GTAGTCAAAG
22151	ACTAGTCACA	GCTGGCAGCA	TGAAAGATAT	GCAAGTAATT	TATCCAGTGC
22201	TTAGAGGCTG	TGGTTATATA	AAGCAAATAT	AACCTTTAAT	CAACTATAAA
22251	CCAGGCAGCA	TTGTTTAGAG	TACATAGGTT	GCTCTGAAAG	TAACGCCTCC
22301	TATTTATTTT	CACAGAAACT	ACAACCTGATA	CGAAGAGCAT	AACAACACTG
22351	ATAGAGCATA	TTCCCAGCTA	CAAAACACTA	CTTTTCAACT	CAGTCATCAC
22401	GATTAGCTCT	GCATTTTTGC	CAGCGATGAG	TGAGAGCCTG	CATGCTACGC
22451	GCACAGAAAT	CTGCACCAGT	GGAGGTGCCC	CACCGTCACT	GGTGCTGAAA
22501	TGCACCACCC	ACTGCCTCAC	CGCGCTCACA	TCCACTGCTT	GGTCTCCATA
22551	AATATTCAGC	AAGCATTGAT	GAATGTCAAG	AGGTGTAATT	TTTTCTGTGT
22601	GGAGGAATTC	AGTGACACCT	CTGCTTCATT	TGCGCTTCCA	GCCAAATGCC
22651	ATTCTGTGAT	GCTGCCTCTC	TGCTGCCATC	TGTCGCACAG	CCAGAGCACA
22701	TAATGGAATA	CTGGTAGGAA	GGTTCAACCA	CTACCGCCAT	ACCACCAATG
22751	ACACCTTGGG	CTGATGATAT	ACTAAAATAA	ATACTACCTT	TGGGGTAGCA
22801	CTCATAGTTT	AGGTTAACCC	TGAAAACCTGA	AGTAAATGAC	ACCTCCCCCT
22851	ACCTCCCGCA	GCCATTTAGC	TACATCTTCT	GGGATAACTT	AGCTAGGAAT
22901	CTGTGATAAT	ATTTCAACTT	ATCCTCATTG	TAGAAAAACA	GCAGAACAAA
22951	AGGTATCCCT	TAGAGCTGCA	GTTCTAACCG	GCAGTGTTTA	TTTGGAATAT
23001	TTCTAAAAAC	AACTTGAAAC	ACCAAACATT	AATGTTTCCA	TTTCCATGAG
23051	CAAGTAGCGA	GATGCAAGTT	TAAAACATAC	AGTATATTTT	TCTACGTTAA
23101	AGATAAGGGA	TTACACAGTT	AGGTTTAGGG	AAACCCATAG	GACAAACTGA
23151	CCTACGACAA	CAACAAAGAA	ACGCATTTCC	TGAGAATTTT	AAGATTGCCA
23201	TAAGGACTGT	CATATAGGAC	TGTTATAAAG	GTCAATTAAC	AAGTAATTCA
23251	GGCAGTAGCT	TCAATCCTCC	AGGTGAGAGC	CCTGCCAGTG	CGTGGCTCGC
23301	TTCTGAAGTG	TTCAACAGAG	GCAACAGAGC	AAAGAATCCT	GCTGCAACTA
23351	AGATCAAGTT	TACAAACCAC	AGTAACTTGC	ATCTACACTT	GAATTTCCCC
23401	CGCTTGCCCA	CAAAGGTCCA	CAAAAAGATT	TGCAGCCCCC	TGAATCACAT
23451	TCACATTTTC	CAGTGCGAGA	CCGAAGTAAA	GCTGCAAAAC	TGAATGACTT
23501	TGGAAGAAGC	ATTTTCATTAT	GTTAGCAAAC	AAAAGCTCAG	CACCTTGCAG
23551	ATCAAAGAAT	TTGTATTTAA	GTGTTTTGTT	TAGCTGTCAA	ACGTAGAAAC
23601	AAAAGTCTAA	ACAAAAGTGA	TAGTTTTGAA	AGTAACACTG	AAGAAATACT
23651	CAAGAACATA	ACTGATGTTG	TACATTTTAC	TTCATTTAAG	TACAGCAAAT
23701	TTCACCCATC	CTATGATTTA	TCGAGTACGC	AAAATATGTA	CATAGAGGAA

Fig. 1-9

23751 ACCAAAACCC ATAAAAAGAC AATCATCTAT GTGCATATGC GCATGTAACA
 23801 TATGCACATG AAATGTGCAA TTTTCTTTTA ATGCAAGTTA AACAAAGCAT
 23851 ATGCACAACA GAGTTGCACA ACCATTACAG AACAGAGTGT TCTGGGTATC
 23901 CTCATGATGT TTCGCATCTA CAGCCAGTGC AAACCTTACAA GGCACAAACT
 23951 CAGTGCTGAC ACCGTAGTGT TGTAAGTTCA GGCACATTTC AATTTGTAGT
 24001 TCTTAAAGAT AATAATCAAC AGAAGTGCTA CTTCTGTACT AAAGTGCCAG
 24051 CCTCTTCCCA AAGATTAAGC ATTAAGTTGA TGTAACCTGT ACACAGTAAT
 24101 GATCAGCGGC GTTCGGATTT AACCTAACCT ATCACTGCAA GGTCTGTGGC
 24151 TATATCGTGC TATGCGCTCC ACACCTCTGA GGGTATGCTG CTTCCCAAAA
 24201 TGCCTCCCTC ACACTCTTCA AAGACTACCC ATACCTCGCC AGCCTTGACG
 24251 CGTGGACTCT TACAGGTAC TACTCAATGC TTTTTCCTAA CCTTAGCCAA
 24301 ACCTCTGATA AAACCAGACT TAAAAAATCA GCCATCGGGA AATCTTTTCGC
 24351 ACACTTGCAT TTAACAAACC TTTGCTCAAT TGCATAGTGA CATGTGTATC
 24401 AGCTAGGAAA GAATTAAAAA CAAAAGCTTG CTGCTTAAGG CAAAAATTTT
 24451 TAACACAGCA CAGCAGAAAA AGCCAAATAC CGGGTTCATC AGTATTTAAA
 24501 CAAAGCACTG GCTCATACAG TCTTCTCCTC ACAGTGTTTT CTTCTTACT
 24551 TTCACAGCAA ACACACACAG TATGCTCAAT TAGCAAATTT TGTTGCATTT
 24601 CTCTAAACGG AGTGATTAAC ACATAGGCTG ACTGCTACTG AAAACACCTG
 24651 ACAAATCGCT TCTCTTGAC CCTCAAAAAA GGGTTTCTTT TTGAGCCTAC
 24701 CAGAAGTTGA AAACCCGCTT GCGCCAGGT CTAATATAAC AGCTAAAAC
 24751 GATCATTTAA AAATTACAAA TATTTACCAT GAGTTGCCAC ATCACTCTGC
 24801 TAAAATTGTG TTTTCCGTAT TATTTTCCAA TAGAAGACAT TTAATAGACA
 24851 TCTGAAGAAA ACAATACAAT ATAAAAGCGT AAGGGTCTTT GCAAACAGAT
 24901 CTTCTATTCC TTCTGCAAAG TAAGAAAGGA GAGAGTTTAT TGGCATTTAT
 24951 TTGCAGTGCC ATCGATAAAG ACACGAGAAT ACTTAAGAAA GAAAAAGTT

R gene exon 9

25001 CTAGTGATCC ACAGACATCT TTGGCTTAGC CTTCTGACC AAAGTCTTCT
 25051 GTAAACTTCT TTAACCTTCTC CAGGTCCTGC TCATTAAGTG TTGGCTTTGT
 25101 GCTAGCTAGC GACCTGAGCA TATCGGCCTG TGAGAAAGAA AGCAAGAAAA
 25151 CATGCATTCA GAAAACGTAC CGCTGCTAAC AGTATTGCTG TGAAGAAAAAG
 25201 TAAGCTTTGA AAAGCCTTTT AAAACAAGTT GACTGTAGGA ACTCTTATTG
 25251 AAACAAAAC TCGAGTAAGC CTGAACATTT CTGCACGTGG ACCACTTTTT
 25301 AACCTCCTGA CGATAGACAA TTAGTGAGTT TTTACAGGAC TTAAGCCACA
 25351 ATCTGAGGTT CAGCTTTAAA ACAATTCATC CATTCAACAA GTGTTATCTA
 25401 CCACTGCTTA CTGCAACAAA CTGAGCTTCC CATCTTACAG ATTCGTATTC
 25451 CAATTCACTT TTAAGGACAT CAGGTGTAAG TGGAAAACCA TCACACGTTT
 25501 CCACATATTC CAATGCCCAC CAACACAGAA TACTTCATCA TTGATCTCCA
 25551 GCAAAGTTTT ACTGCTCATG ACTGCTAACT TCTGTTTCTT CAGCTCAGTC
 25601 AGTTTTGTAT ATTTACATTT GGCTACTAGA AAATGGAGTT CAGAAAAAAA
 25651 AACCACAGAG GTATGAACTC AAATTCAGCA GTTAAGAAAC CTTATTAAAA
 25701 AAAAACGTAT ATAAAAAGTC CTGGCCAAAG GCAAAGCGAG GAGCTGCTCA
 25751 ACACCTCACG TTAATAAAA AGCACAGGGT TAAGTTAAAG TCAGCATCAT
 25801 GATTTTCTAG GCTTTCTCAT CTCATCGTAC TACAGACATC CTACTTAGAA
 25851 AGAATTC AAG TCTGATCTTT TTAATGACAA GAACTGATTC TGGACTCTGA
 25901 AATAAGTCCC TGTGCAACTG TAGCACATCA GAGTCTACCT TCCATTAGAA
 25951 GCACTGAAGG AATTGTATTT AATTCCAGGA AAGACTGATG AAAAATCCAC
 26001 TTAGTTTACA CAGGCAGAAG TTTTAAGGCA GGCCTGCACT TGCTTGCATC
 26051 TTTTCATGCC TCCTCCATGT GCAAATATGC AGATATTTCT CTCCTCAAAC
 26101 TAGTGATGGT TACATGTGCA AAGCAGTGCA CTCTACTTTA GAGGGTTTTT
 26151 GATCCCTATG CAACACACCT TCCTTTCATT CATTACAGAA ACGTTTGCAC
 26201 ACAGGAATGG CCATCAGCAC AGATCTGATA TCGAGTCCTT CCTTCAGACA
 26251 ATGCAATTAC ATTGAGAACC TTTTGCTGCT TGAGGGTAAA ATATACGAGT
 26301 GCTCAATGAT TTGTAACCTT TTAAACAATG TATTTAAACT TCAATTTCTC
 26351 TCAAAATATGA TGTTTTGGTC TGTAAGACAGA AGCAAATATT TTAACATATA

Fig. 1-10

26401 CAAAAAATTC CAGCTGAATG TTAGCAAGAG CTGGCTGCAT CATCTGTGAT
 26451 GAAGTATAAT CCAAACCTACC ATTGCATCCA CCAGCTTTTT ACATTGCATT
 26501 GGTATGCTT GCATTTCTTT TGTGGGCAAA ATTTACCTAC AGCATGTTAT
 26551 TCCCAGTTTA CACTGAATAT AATTTCCCAC TTCTCGATGT CAATAATAAT
 26601 GCTACAGAGC AACAGGAAAG TAACATATCG TGGGGCAGGG ATTCTGAAGG
 26651 TTTTAAATGA ATAAAAGAAA AATTAAAGAA GGGAGGAAGA TTCAGGTGCT
 26701 GTCTATACTG CATGCCACTA GACAATAATA AATGCTTATC AGGGATGGAG
 26751 AGCTGGCTCG CTGATAAGCA TGTGTATTG TCATGCTGTG TGTGCGATT
 26801 AAAATGTCAT CCAGTATGTC CAAGCATGTC TAAAAACAAA GGGCTCAGCC
 26851 AATTGCCTTG CATGCTGGCT CTAAAATGTC TTGAGTATTT TCAGGGTTCT
 26901 GCAAAGCAAG AAACACCACC AAAAAATAAA AAAATAAAAA CAAATACCCA

R gene exon 8

26951 CCATGGAAAC TTTAGGCTCC AGTAATTTAT CCCCTGGAAC ATCCATCCAT
 27001 GTCATTTCTT CAGCTTCAGG ATCACCTGGA GAGCAAGGAG TGAACAAATC
 27051 TACCATGATA TTTGGATTCTG TCACTGATGG TCCTTTTACC TAATAAATGA
 27101 ATACATAAAT AAATAAAATA AACAACTGA AGCTGAACAT CTTTAGAGCA
 27151 AAAGCATACT CTTAATTTTC TGTACATGCC CCACCCGTTT GGAGTTGTGT
 27201 AGTGAAGTGG AATTGTGTAA AGGTGCTGGC ATCGTTCACT TTGAAAACGC
 27251 ACAGCAGTAG TCAGATACTT GAACTCATA CAGTGCAGAA CCAATGAGCC
 27301 TTTAAGGTAG GAATGCTTGT AGAAAGCTAA TGTGCCAGGT CTACTGTTTG
 27351 GAGAAGACCA CTCTCTTCTT AGTCCTCAGT CACTTTGGGA GTCCATTAC
 27401 CACTGGTTAA CATTCTTAAA AAATTCTCAG TAGTTATTAC TGACTGACCC
 27451 TCAAGTTGGG CTGCCATGGG TGTCTTTTA AGCTTCCACT CACTGCACTA
 27501 AAAAGTTCCG GGCACCTTTT CTGACACAAT CTCTAACAGC ACTTGATAGA
 27551 AGATGGGGCC ATCTAGTGGA GGAACAGAAA CCATCCCTTC TTCCAGATAC
 27601 ATAGACAGAA CCTGAAAAGC TCCATCAGCT GCCTCTTATC TTTTGTCAAT
 27651 GCATATCTCA GACCTGTAGT TCTACCATCC TTCCTTTGTC AGTCACTGAA
 27701 GTATCACACA TCCCCATGAA CACAGAACAC ATGCAAAGGC GAAAAAAGAA
 27751 CTGCTTTTAA CAGCAGAGAA CTGGATTTGC TGTTTCAATC TGCTTTTAAA
 27801 GCACAGCGAA GAAAAGCATG GATTATAATA CTGGAACTC AACTTGGACA
 27851 AACCGCTATC AATAGGCTGG AACAAGCAAT GGGTTACAGT GAGTTACAGA

CR1-GG

27901 AATTGAGCAA AACGCTACAA ACAGGAGGCA GGGGCAGATG GCGATTGGGA
 27951 CAAGGGGGAA TAGTTTAAAC CAACAGAGGG GAGATGTAGG TGAGATGTTA
 28001 GGAGGAAACT TCCTACTCAG AGGGCAGAGA GCGCTGGCA CAGCTGCCCCA
 28051 GAGAAGCTGT GGTGCCCCAT CCCTGGAGGC GCCCAAGGCC AGGTTGGATG
 28101 GGGCCCCAGG CAGCCTCAGC TGGTGGGGGG CAGCCCTCAC CATGGCATGG
 28151 GGTGAGCT GGTGGGCTT TGAGGTCCCT TCCAACCCCC AACCATCCCCA
 28201 TGATTCTATT TAACTGGGAC AAAGTGCTAC TATGGAAATA GTTAATAAAG
 28251 CAAAGGTTTT TCCTATAAAA ATAAGAATCT GCATCCAATT AAAGCACAAA
 28301 CAAAACAAGT GGAATAGACT TGCATCAGAA CACTCAAAGC ACGGTAGGCT
 28351 TTTTTTCCTT TTTGGCAAAA GAGGTAAGAA TTGCCTTTGG CTGCTCTGCA
 28401 AACTGTGGTA ACTGAGATTA TTTCATTGTT CTGTGGCAGG CTGAGGCACG
 28451 CCTCAGATGT CTGCAAATTT CAATGAAAGG CTAAAATGTG ACAACCCATT
 28501 GGCCAGAAAT GCCATCATTG TATAAAAACA ACAATGGATA AATACTTCAG
 28551 GCATCACTGC TTAAGGGAAG GAATAACCCA GAAAATCCCT GATATATCAA
 28601 AATAGCCGCT TATTTTTTAA GCAAATACAG TTTACAACAG CTCAAATAC
 28651 TGTTTCAAAA TGTTCTTTGA TTTTAACTG GGAAAAGTTC ATCAAATAC
 28701 CTACCAAATA TTCTTCCTCA CCACCAAAT TACAGACTGC TGGCGTATTT
 28751 TAACAAGTTG ATAAGGCTTC CTCCTGCAA GCACTGGAAC TTTAACAGAT
 28801 CTCTTACATT CTGAACCATA TTGTATTTAA GCGTTCCTTT CCCTTGGTGT
 28851 CTTAAGCTGA ATGTGTTCTT TACAATTACA TGGAGAAAAG TGCCACCTT
 28901 CAGTTCACAC TGACTCTAGC TGTTCACTG AGGGCTCTGG ATGAGTTACT
 28951 GGTAAGAAAC TAAGAACTG TCATCATAAC TCATGAGCAA CAACTGCTGC

Fig. 1-11

29001	CAACACAAGT	TGCGTGTATG	ACACGCAGAG	CAATAAAATG	AAAGCTCTGA
29051	AAGCTTCCCT	TTCCAGAGTC	AAAAGTCCCT	GCAGATAACA	AGAATCCACC
29101	TTCACCTGAA	GTTTGTGAAT	TTCTGTGAAA	ACAAAGTCTG	CAGTACAAAT
29151	GTAAACAGAT	TATTTTAGTT	TCGCTCTCTA	AAACCAAAAC	AACAGCAAGA
29201	AAAAACTAGA	CAAGAAAAAT	ACTATCATGT	TATTTATAAA	ATGTAGGCGA
29251	AACTCCAAGA	TAAGCAAAAA	AAAAAAAAGTC	TTATCTATCT	ATAGTTACAC
29301	TCTTTTTTGA	CATCAACTAA	GTGTAAAGTA	GTTTTCACTC	TACAGCAGCA
29351	TCCATAAGAT	GTTCCCTTGCT	GCCCCAGCAA	TGACAACGAC	CTTACTCAGC
29401	CGTCTTG CAT	CTTA ACTACT	GTGACAAGTA	ACATTAGGGG	ATTCAATTTT
29451	TTACTGGAAT	CTTAGGATAA	TCTTAATTTT	ACAGTTTGAA	GGACATCCTG
29501	AGCAAACAGT	TGTGCAGTTG	TAATTCCTCT	GTTCCACCGT	AGATAAGGAA
29551	TACGTTTATT	TACACACATG	CGCTAGAAAA	ACAATTACGT	AATTTGATAT
29601	AGAAGAAGAG	CACCACTGTA	AGACTCCGAT	TTAAGTTGAA	CTCCAAACCG
29651	AATGCTTTTA	ACAGCAGTTA	TAGACGTGAA	GATTGATTAG	AGCTTGGATT
29701	ACACAACATG	AATACCTAGA	GATGAGGTGC	ATCAACTTAT	GGCAGGAGTA
29751	CTCCTTTGGT	AGGTAATGAA	GAACAGCATA	CACACATCTG	TAAGCACACG
29801	GTATTACCCC	AAACCGAACT	TGGCTTACTT	ACAACAAGTT	TTCAGATCAA
29851	GTTAATTCTC	AGAGTTGAAG	CAATATGAAA	AACGTTTTGT	TTTTACTTAC

R gene exon 7

29901	TTTTTTAAAG	TGAGTAGCTG	ATTGCACTTT	TCTAACAGGT	TGCATCAGTG
29951	CATCGCGTAC	AATGATGCTT	ATATCTGCAC	CAGAATAGCC	ATCGGTTCTT
30001	TTCCCAAGCT	CCCATAATC	TGCTTCTGTT	AGGAGATTGG	GAGTCGACCC
30051	GAGGTGAAGT	TTGAACATGG	CAGCCCTGGC	ATGGTCTTCA	GGTAAAGGAA
30101	TATAAATTCG	CTTCTCAAAC	CTGGTTTCCA	AAAGATAAAA	GCACTGGCTC
30151	ACGCAGGTGC	ACGATGGAAA	GAAGTTTATG	CAAATCAGTA	TATACTTTGT
30201	TTGTAAATGA	AACTGCTTTT	TTCTTATGTA	TTATAAATGT	TTAAAAATAT
30251	ATATCTCAGA	TATTCTGCAG	CCTGTTCTCA	TAAGTAATAC	CATGGCTATC
30301	ATAAGCTAAC	ATCTACAATT	TAACAACGAC	TTCTTTTTTA	TGACAGAAAG
30351	TCTCTTCAGA	CTGTAGTTTC	TCCAGGTTCA	CTCCAGAGAA	GTTTGTTTTA
30401	AAAGAAAATA	ACTGAAGGAA	AAGGAGTCTT	TTAGTTTTTA	AGTACATCTG
30451	AACAGTTTTC	ATAGAATCTT	AGAATCGCTA	AGGTTGGAAA	AGACCCACAG

CRI-L

30501	GATCATCCAG	TCCA ACTATT	CACCCATCGC	CAACGGTTCT	CACTAAACCA
30551	TGTCCCTCAA	CACAACATCC	AAACATTCCCT	TGAACACCTC	CAGGCTCGGT
30601	GACTCCACCA	CCTCTCTGGG	CAGCCCATTTC	CAGTGCCTGA	TCACTCTTTC
30651	AGAGAAATAG	TAGTGGTTTT	TCACACTCAA	AGAAAGAGCT	GCCCGATAAC
30701	ACGTTACAC	AACCAGTTTC	TAAAGTTTGT	AAGTAGAGAA	CGTTGTAGTT
30751	GGAAACGAAT	TTGAAGTCTT	ACTCTCAATA	TAGTTGTTGG	TAGGAATGGT
30801	TGATACTTGC	GGTGCTTCCT	TTGAAGCATC	TGTTCTCAAA	GAGAGGACGA
30851	CCTCCCATCA	GGGAAATAGG	ACCGACTCCA	AGTTCTGTAG	AACACTATTA
30901	ACTTCCTATA	GGTAAGTGGG	CCCAAGCCAT	GAAAAATTAA	TTCTGTTACT
30951	GCCACGCTCT	ACAAGCTCCT	TTAAGTTTTT	CGGACAAGAA	TGAGAGATAC
31001	TCGTTACAC	TGCAAAGAAT	GACTTGAAAT	GTTAAGTACC	ACATTCGCCT
31051	CTTATTCCTT	GTATGAAACT	ACACATGCAC	AGGATGGAAG	CGACCTCTGG
31101	AGGCCACATG	GTTTAAACTC	CCCAGTCAAA	GCACGGTCGA	GTTGAATTAA
31151	GTACATCGAT	AAAATGACAC	TGTCACCAAA	AAGGATTGTT	TCTTTAGCCT
31201	ACAAAAATTA	CCATTATACA	GGTTGTATCA	TCATCACAAC	ATAATCACAT
31251	TTGTACAGTA	ACTGTGTTTG	TCCTTTGCTG	CTCTGCAACT	GAAAGATCCA
31301	GCTAATCAGA	TACAGATACA	AACGTCATCC	CATTAGAGAA	AGGCAGTTGA
31351	AACGTACACT	GAAAGATCAC	ACAAACTGTG	TGACCAGTAC	AGCAAAAACA
31401	ATGCTTCTGC	ATTACTTAAA	TTCTGTGAAA	TTACTCAAGC	TATCCAAGGG
31451	TTTGCTAAAG	TTGAAAACGA	TAGCTCTGCT	GCCTCTTACC	CTTCTGACTT
31501	GCTTATGTTG	TACCTTGCCC	CCCATGCTCA	CCAGGAGACC	AGTCAGCAAC
31551	GAAACACAAG	TTTTTTGCTT	AGTCAAGTGG	AATTAGCTGA	CTAAGAGATC

Fig. 1-12

31601 AGACAGACTA CAAGATATAC ATAAGAGAGA ACAATCCACC ACTTAAGTGA
 31651 AGGGGATATT TGACTCAGTC CACCTCATGA GACATGCCTG CAAGAATCAA
 31701 GTGGATCACT CACTCAAATA GCCTCAGGAT GAACCCTCAC AATAGTTGCA
 31751 AATTTCTTAG CATAAACATG AATACATCAA TCATAGGCCA ACATACCTTC
 R gene exon 6
 31801 TCCTGATAGC AGAATCCAAA ACCCAGGGTA TGTTTGTTCG TCCTAAGACC
 31851 AATATTCCTT CATTATCAAC ACCAACCCTT ATACCAAGGA AGAAATCATT
 31901 TCACCATTTA GAAAATAAAC AGAGACTGCC TGATAATGTT TTAGAACATT
 31951 TACAAAACGC AAGGGGGTAA AGCTGCACAT CTTTTTCACAT GTAAGCAATG
 32001 CATTTTATGC GTAGCTGAAC TCCTTTGATT CTGAAAACATA TTAAACTTAC
 R gene exon 5
 32051 CTTGCATCTG GACTAGAAAT TCCGTTTAA TCCGTCTAGC AGCCTCGCTT
 32101 TCATTTTCAC TTCTTGACCC ACATAGTGAA TCTATCTCAT CAATGAAGAT
 32151 AATAGAGGGC TTGTTTTCTC TGGCAAGCTG GAATAGGTTT TTCACTAATC
 32201 TTAATAAAGG AAACAGCTGC AGTTATCTTA TTGTACACAC AAGCAAAAAC
 32251 ATGCAACTTT GGATTATGAT ACAGTGACTT TGTTAAGAAA AAGCTAAAAG
 32301 TAAAAAATAA AATGAATCCC ACATAAGATA TTAACAAAGC TACTCAAAGA
 32351 TACAACATCC CTTCAGAACT ACTAACACAG CATTAGGCTG AGATGCTGAG
 32401 TGAGATACCA CAGAATAAGG TAACTTTAGG CTTCTAGTC TTGTTAACAC
 32451 ATCTCATTTG AACATGCAGA GTGGATATAT CAAAGGCGCT CATCACTTCC
 32501 AACCCATATA TGCCCATCTT TTATGTCTTC AAGATTTTGT TTGAAAACAG
 32551 AATGTAGAAA AAAAACCTTC ACACAGAGGA AGAAACAACA TGTATTATCT
 32601 GCAGGGCTAC TGCAACAGAT GAGCCAGAAG GTGACAAGAA TCAAAGTACC
 32651 CCAACACTTC AGACCACTTT GTTGTAACAAT CACAGCTGGG TTCAGAAGGG
 32701 CATTGATCAC CATTGTGCTG CTAATACCTT TGTCCAACT AGTTTTAAAA
 32751 ACAGTCTTGA GTGCTGAAGC TGCTGTAGCA CAAAATACAG TGCATTATGG
 32801 TACTTTTACC TGACACTGCA CTGAAGCAAA GAAACATCTA AGGTTTGCTT
 32851 TAACAAGACA CATGAACCTT CCTTCCATTT AATTTCTTTA GAGTGTCTTA
 32901 TCTAGCTCTG AAAAATTAAT TTCCTCTTGA TAATATTTTC CTGGAACCTC
 R gene exon 4
 32951 GGAAACTCCA ACTTACTTCT CACTCTCTCC TAACCACTTT GAGACCAGGT
 33001 CAGAGGAAGA TACTGAGAAG AATGTGGAAT TGTTGCTTC CGTTGCAACA
 33051 GCTTTTGCTA GATACGACTT TCCTGTTTCT GGAGGTCCAA ATAGAAGAAT
 33101 CCCTCTCCAA GGTGTTCTCT TCCCTGCAAG AAAGAAATCA GCTATCATCA
 33151 AAATGCTGTA TCAAGAGCAA GTCTATCTTT CTGATGAAGC CTCCCTAATG
 33201 TACTAAGTTT TCTGTATGTA CCTAAGAAAC ACCTGTCAGA TCGATCATTT
 33251 ACAGCTCAGC TGGAGCCTCT GATATAGCAG CATAATGCTC TTCTCAGACT
 33301 CCGCTTACAC TACTCACTTC AACAGCAGTA TTTAGAAATGG GAAATAAATG
 R gene exon 3
 33351 CTGTAATACT GACCTGTGAA CAAGTGTGGA AATTTAATGG GCAAGATAAC
 33401 TGCTTCTTTA AGAGCTTCTT TGGCACCTTC AAGGCCAGCA ACATCACTCC
 33451 ATTTACATT TGGTCGCTCC ATAACAATGG CACCTATAAG AAAAGATTGG
 33501 ATAAATCACT GATACGTATT TTTCCACTGT TTGCTTACCA TATATTTGAA
 33551 AAAAGAAATC CACGTGTATG TTTACATTAA ATAAAAACGA GCCATTTCCA
 33601 CACAGATTTT AGCATCAAAC AGTGCTACTC AAATGGATAT TATTTCTACA
 33651 GAGATTTGGC AATCTTTTTT TCTTTAACCA CAATAAACCA TCAATAAGCA
 33701 GAGAGTTGTT AGAAGTTCTG CAGTGTGCAA ACTAACTCTG CAACTGCGCA
 33751 GAAAACATAC CAATGGCAGA TACAGAAGAG TAACTTCCT AAAAAGAGAT
 33801 CAACATGACG TACACCCTGA TGAAGCAGGC CCACTACAGT AGGATGCACA
 33851 GGAAAGCATG AGCAAACACC CTGCTGTGAG CACTCAGTGT AAAAAGAAAG
 33901 CCTGGAGTAG AGACCAACAT CAATCTGTAT TGCATCCAAA CCAGAAGAGG
 33951 CAAAAAGTG TCTCACTAAG TTGCAGAAAA TGTGAACAGT TCACACAAGA
 34001 CGGATTACTG TGGAGAGAGT AAATATGTGC ACTTTTTTAT TTCCCCAATA
 34051 TGTCACCATT ACAAAGGAAA ATCATGGAAT GGTGGAGGGT GATGGAGGCC

Fig. 1-13

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34101 CAGCCTGGGG CCCCAATACA TGCAGCAATG GACAGTGAGG TCACCGACCA
34151 AGCGGTTGTG ATGTCAGCAA TGGAAATGAC TGTGTCTCG CTAGCCCTCA
34201 CTGTACAGAT TTGGGATCTG GCAGAGGCCA GCGTGACTT GTACCTGGAC
34251 TTCTACTGAG CATAGCTGCG AGACTCGGAG CACTGAGCGA GTTGGTTGAG
34301 TTGTGCTGTG GGGCTGCTGG CAGCAGTTCT TGGTGCCAC CCCACAGTAC
34351 CACCAACGTT TCCCCAGCC CTGCCTGTCT CAGGCAGCTG GGGCCACACA
34401 GGGTGCACCT GTAGCAGCAG AGGTGAGTGG TGCAGGACAT GGCCTCTGCG
34451 GCGGCTGGTG GGGAGTGGG AGGGTTTGCT GCTGAGGGAC CAGGACATCA
34501 CAGCTGCCTG CCCATGGGAC GAGTGACCAT GGCCTCTCTC TCTCTTTGCA
34551 GTTCGTAACA CCTTCTGCCT GCTGCAGTAC CTGTGAGGGG AGCAGCTTCC
34601 CGACCTCAGC TCTCCAGCC CACCGCACAG CCCGGGGCCA TGGACGTGCC
34651 ATCTAACTGG ACCTGCCCCA TCTGCGGGCA AATTGCGGAG GATGTCACCT
34701 ATGTGACCCC CTGCAAACAC CAGCTTTGCT ACGGCTGTGC CATCTGGTGG
34751 GCAAACAAGA AGCCGAGTTG TGCCGTATGC GGGCACCAAA TCACCACCAT
34801 CCGATACTCG GTGAGGTCGG ACGACGACTA CCTCGAGTGT GCTGTCCCGC
34851 AGCCCGCAGC ACACTCTGAT GATAGCCTGC AGGATGAGCA GGGGCTTGCA
34901 GAGCCGCTGC TCATCCCACC TGAGCACAAC TTCCCTGCCG AGGCTGCGGC
34951 TGCCTTCTTC AAAGAACATC AGGGAGACCT CGAGCCCCTG CTCCACTGGC
35001 TGCAGGAGGA GATCCAGGAG GCGTCCAGCA GTGACTGGTG GGAGGTGGAA
35051 GTGGGACAGT GGACCACTGT CAACTTCCTC TGCGAGCACG GCCTGGACGA
35101 GGAGGCCTTG ATGCGGGAGC TGCAGCCGAT CACTAACGGC GATGTGCTGC
35151 CCTTTGTAAG GCAGCTCATC AGCACCGCTA CAGCCCTGTA CGGCCAGCG
35201 ATCCGCCGCC AGCTCGACCA CCAGGAAGGC CGTGCTGCAG GACAGCGGGA
35251 GGACAGCCCC GCAGCCAGCC CCAGCACCAC CACCTCCCAT CAGGAGCCTC
35301 CTGCCTCGGG CCTGGGCCAC TCCACCAGCC CCGCAGGGCC CAGCACCAG
35351 GAGCTGCCCC GCAGCTCTAC TGGGGGACCC GGGCACCCCA GCACCACCAC
35401 CGCGCCCTCA GCGGAGGAGT CGCAGGAGGA GCCATGGCAG GCGGTGGCAG
35451 CGGGCCCCCTC CGCCCAGGGC AGGGACCGCT CGTGTGGGGG GCCCCGGCGC
35501 CCCCCGAAGA GGAAGGCCCG CAGCAGCCCC CAGGCCTCGC CCCCACCTCC
35551 CAAAAGGCGG CCCCAGCGGC GCGCTAGGC TGGCACCGCA CTGCCGTCAG
35601 AGCACAGCGC CAGCGGGCTG GGAGGCCAAC ATCTACCTCT CGGCCTGCTG
35651 CTTGCTGGCA GAATAAACAT CAGTTAAAC AAAGAAGAAA ATGTCTCTGT
35701 GTTATTGACA AGACTCTTGC TGTGCTGTC CCTACCCATG CTGCTTTCTC
35751 TCTCTTCCGG TCCTAGAGGA GAGAAATGCA ACTTTATTTT CACCATCATA
35801 ATTCAGCATT CATGACAGTA CTAACAAAGC ACACATAGGC TCCAAAAAGC
35851 CGAAGATGGA CCCCTCATGT TGCTCTAATC ATAATCCAAC CACCAGGACT
35901 TGGCTAAATT CCTCTCCTAT TGCCAAGCTC TGGGCCACAG ATTACTTCGT
35951 TTGATTTTAG CTGCTGAGCT GTGGTGTCCC CCTCCCTTCA GACTTCCCGT
36001 TAGTCAGTCT GAAGATAAAA ACTCTGTTAC CAGATGACTT TTAGATGGGA
36051 CAGCTCACAT CTGAGCTAGT GACCCAGCTG CACATTTTGA AACCTTACTC
36101 AAGACAAATC CAAAAGGCAA GAGAAATCTT CCCAAATGAA TTAATGCCAA
36151 CTACCCCAAT GCTTATCTTT CTGTACTCAA GCACGGTGAA CTGTTTCAGTT
36201 GCCATTTTTT TCTACAAAGG GCTTTCTATT AGTTCACAAC CAGTTTCTGC
36251 TAGCTATTTT CTTGTCACTT TCCCCTTG TG CTTTCAGAGC TCTGTGAATT
36301 GGTTGATGGC CATTTTCTAC AATGGAAAGT GTACCGCTAC TCGTGGCTAA
36351 CAAATAAAGC AAGTGACATT TGTTCACTTT TTGTCCATCT CCTTAGAGAT
36401 TTTTACTTTT CCTGCACGCC TTTCTCATCA GATAGAAAGG AATATTTTTT
36451 GCTTGCAATC TATATACAGG AATCCAGCCA CTCACTTTTA ATGCCCTCAA
36501 TACTTTTGCT AGGTTGATTA CAACTCAGTT TTTCTGTAA CCAGGCTCCA
36551 TCACTAAATT AATTAGTAGG ACAAGTAGGA ACATGAGATT AGTTCCAAGC
36601 TATCAGTTAT GTGGACCTGG CATACTGTGG TAATTTAAAT TAGCACACTG
36651 TAAGACATTA CCCATACCAG GAAACAAATG GAACAGGACA TCGATCATGG
36701 CTTCTCATT TTGTAGGTGT AAAAGAACAG CTGGAAGACT AAGCCAACAG
36751 AGCGCAAAAG GTCTTTAAAT ATCAAGCTAA GCCACTTCTT TTCTATGTAA

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Fig. 1-14

36801	AAAACACTG	CTAGCTGCTA	TATATTGCAT	CACTGGATGT	GTACAGCAGC
36851	TTATTTCAAA	AACACAAACA	ATTATGTTAC	TCAACTGAGT	AACACCCCTT
36901	ATCACTGCAA	CACGAGGAAA	TCCCGCCTGT	TGCTATGAAC	AAACAAGAAT
36951	CCATCTTCCC	GCCTTATCAA	CTTGAGTTCA	AGCCTTCCTG	TGAAAATGGT
37001	CCTGCTTATA	CTACGTACTT	GGATGACATC	TGTTACTTGG	ATGACATCTA
37051	TTGCCTCTAG	GCAATAATAT	GTCAATGCAC	ATAAGAGTAA	AACTAGCACA
37101	GTCTAACAAA	ATAGCTATCT	GGGATCTTGC	AACTACTCCC	TTTGGAAAAT
37151	GTTTTCTTGA	TAAATGATCC	AATTTCAACA	TATGCACCAC	TGAATTTTAT
37201	GGCATGCAAA	CCCATACTGT	CATAAAGACT	GTACTTCTGG	ATGTAAAGAG
37251	TATATACTAG	TTGAGCCACC	TAAAGACAAC	AAGTTAACTG	GCAAAACAAA
37301	CAAACAAACA	AACCCCCCAA	ACAAC TAGAA	ATTCACTTGA	CCAAAGTCAC
37351	CTCTATTTAA	ATAAATGGAG	GCTTCAAAGT	TACCTTGAAG	CTGATTCTGT
37401	AGTTTCTTTT	TCTCAGGATC	CTTGACTCT	CCTTCCCCAT	CACTGTCAAT
37451	CCTGATTTGG	AAACAAGAAA	TAAACCGTTG	AAATACACTG	AGAAACTGCT
37501	GTCCTAGGTC	ACAAATCAGA	AAGCAGGAAG	TAGAAAAAAC	ATCACTTCGA
37551	GGAATGAAAA	ACCTTATGAT	TTTAGATTTT	TTCAGCTCTC	TACAAGTTTA
37601	CATCCTTGTA	GTCTTGTTTT	TCTACACTAT	ATTCTAACCC	CCCCCTCTCA
37651	CTGCAACCAT	TTCAACTTCT	GTACAGACCC	GAGCCCTTCC	TCTTAACACA
37701	CTTCTACATG	TGTTGACTCA	GCCTCTAGGA	AACAAAAGCA	TCGTGGAAGC
37751	AGCAAAATGG	CTTCACTGTA	GATGCTGGCA	CTTACTCCTT	GTCCAGAATT
37801	GCAACTGGTC	TTGGTCAATT	CCATTTAGTA	CTACGAAACT	CTCTAGTCTT
37851	GTCAGAATAA	AGGAAACTGG	AAGTTAAAAAG	TAGAAAAAAG	TAGACGAGCT
37901	AGGGGACAAA	TGGAATGGAG	ACGTGTAGCC	TCATGTTTCC	TTCTACTATA
37951	AACCAGCAGA	ACACAGTACA	GCTCAAAAAA	ATAAAACCCA	TGAAATGAGC
38001	AGACAATGAA	AGAAGCTGAA	AATCAGGGGA	GTTTCAAGA	GACAACCTGAG
38051	CAGTTCTAGC	TGTTCAAGAC	TACCAAAAAAG	GGCAACCTCA	CCCAGAGACA
38101	CCATTGTGAA	ACCTTTCTTC	TACCCTAGCA	AATACAAAAG	AGGCTCTGCT
38151	TGTTTCAGGTG	GGCTGATTCA	GCTCTCAGAT	GTGCAAAGTG	AAAAACAGAT
38201	GTAATAAAAAG	GAGAGCGGTG	CATAGGCAGG	AGCAAGGCAA	TAGAGCGATT
38251	CAGACCATCA	GAACATCAGC	CTATGACAGA	ACCTTGGAAC	CCCTCATCAA
38301	ATGTGAGACA	GATAAAACTC	AGACCACAGT	AATCATCCAA	ACCAAACCAA
38351	CCAAATCTGG	ACTTATTTTC	TAGTCATTAA	GTATTTTTCAT	GCAGAAGAAT
38401	TGTGTTACTA	GGCTCACTGT	CATCGAAAACA	AAAAGTATTA	GTGTAAAAACA
38451	GCTTTTCATTC	TTCACTGAAT	GTCCTACAGA	AGCATTGAAA	GATGTAGCAA
38501	ACAAGCACAA	AAAAGCCCAT	AATATTAAGT	CACATTATTT	TTCTTTTATA
38551	AGCCCACTGT	CCTTCAGCAT	TAGTAGTTAC	CTGAAGCGAA	GCACTTCAAA
38601	AACACTACTT	AAAATGATCT	CTGTTGAGAT	CTAAGTTGAA	TCTTAGAATA
R gene exon 2					
38651	AGCGGAGTTC	AGGAAGTATT	TTGCTTTACC	TTCTCCCAAA	ACATACCCTT
38701	TTCCATCGGC	AGGACCAGAC	TCTTTAACTG	GCTTTGGTGC	AGTTTTTTCT
38751	CTCTTTTCA	GATATTCTTT	CAGTTTTTCT	GCTCTGTCCA	AGTATTCCGC
38801	ACATTTCACT	CTAATGCTCT	GTTTTGCTTT	ATCACCCCTGT	GTTTCATCTA
38851	AGAGTGTGAA	AAGAAACAAT	GCGTTGTAA	CAACAAAACA	CACGTGCATC
38901	ATTCAGAAAA	CATCTTTATG	TGTTATCAAG	ATACCTCTCT	CAGGGCTCAC
38951	CACGCATCCA	AATGTTTCAT	TTACTTATTT	TTTCCCCTAT	GCCATGGAAA
39001	GAAGTGACAG	GAAAGAAGTT	AACGCCTACA	AATCAATGGT	AAGTAATCAC
39051	TTTCAAATCA	AATACACACC	TGAACGTTGC	TTTGCCTTAA	AAACTTGCCT
39101	GAACACGAGT	AAGGACAGTG	GCACTGGAAG	CTTTTCTGT	CAGTCTCTCA
39151	AACTGCTATA	TAGTGTCTTA	ACTACTTTTC	TAAACTAAGC	CATTGAGAGG
39201	CTGACTTCTT	GTTTTTAGAG	ACCTTTTTTT	AATCTAAGAC	CACTTTATTT
39251	TTCCCCGGCC	TGCTAATTTT	GAAAGTTGTG	CACATCAAAG	GAAGAAAAAA
39301	GTCACAAAAC	ATCTGAAAAA	ATGAGGAGTG	GTCCAACAGC	CACAGTTCTG
39351	TTAGTCGCTA	CTGCAGTATT	CCAGATCAGC	AATCAAGCTT	GAAAATATTA
39401	AGTTCATGCG	CTACGTTCCC	AAAAGTCCAT	CAGTATGGTT	AAAAGCATAG

Fig. 1-15

39451	GGAAGTAAGT	GGCATGAGTT	AATGAGCACA	AAACAACCTG	TGGATACTAC
39501	TAAGAGTTCT	TACAAGAAGG	GAGCAGGCAT	GCAATATGCA	ACTTTTGTCC
39551	TTGCTATAAT	ATAACACCTC	AGCCAAACTA	CAGAGAGCAA	GTGTCAAAGT
39601	ACAACAACAG	TCAGAAGTTA	AACGTTGATG	TCGACAGAGG	AGACTACTCC
39651	GGGCAATATA	AACTTGACT	TCATCACCCC	ATGCATTACA	CTTACATTTA
R gene exon 1					
39701	ACAACGTGGA	TTAAATACTG	CACAGCATGC	TGGTACAAAC	GGAAGGCTTC
39751	TTCATAGTTT	CCTGCTTTAT	CTTCTTGTC	TGCCTTACTA	GCGAGGTCTA
39801	TCGCTTTCTG	TAACATAGGT	AAATAATTCA	AATGAGTGTT	GTGTGAGTGC
39851	TTTGTGCGAT	CAAAGAGGTT	TTTAAGCTGC	TGCTCTGACC	GCTTCTTGGT
39901	GGCCAGCTTT	TCTGCTCCTT	GATGTTTACC	CAAAAGAGCT	GCTGTTATTG
39951	AAGACTTGCT	GTCAGTTGTC	TTCATCAAAT	CCCATCGGCA	TCAGTGTTGA
40001	TACTGGAAGT	ACACGATTAC	AAAGCAATGA	AAGCAGCACC	CTTTCCCTTC
40051	TGACCCAGTG	CCAGGAGTTG	GTTTCAAAGA	CTCATTATTT	GGTAAGCTTC
40101	TCATGAAGGC	TTTAGGTACT	TGACGTACAG	AAGTGAGAAA	TTCTAACCAT
40151	CTCTTCAGTG	TGCATATGGG	GGGGAGCTCA	GTGGACAGGA	AACATACCTA
40201	AATTATCACA	GAAGTTCTAT	CAAGGACAAT	TTAGAGATGG	ATTTTTATTT
40251	GTTTGTGAG	ATAATTTCAA	ATACATCTGG	TCGTAATCTA	AGACACTACA
40301	TCGGCCTGTA	GATATATTGA	TATTACTGTT	ATTCTTTTGA	TCCCGAGTGC
40351	TTTTTATTAC	ATTTTCAGATT	ACATTACAGA	TTTTTATTAC	ATCCTTGGA
40401	CATCCGTACT	GCTTCAGGAC	AATTAAGAAT	GACAATTCCA	ATGACTAAGG
40451	CACGTATGCT	TAAAAAAGCC	AGAGTTGACT	AACGCTACCT	CGAACTTCTA
40501	CAGCCCTGTC	TGCATATTTT	CACCTTCTGC	CAGTTTATTT	CCCAAAGGCA
40551	GGGACAGCGT	GCTCGTGATG	ACTGTGCTAA	CATCAGGGAG	CAAGGTGAAG
40601	ATATTCAACC	TCATCACAGG	GTTTTCACCTA	CACACTGCTG	TGCACATACT
40651	CTCAACAGTA	ACCAGACGCT	CTGATGCATC	TCAGTCAAAA	CCGAGCAGAT
40701	AAACTGCAGC	CATCAGAGAA	GGAGGAACAA	CATTTCTCCT	TCTATTGTTT
40751	TGTCTTGCCT	TTTTGGAAGT	AGAGATCACC	TCATTGGATC	CATCTGAAAT
40801	CAAGAGTAAT	TTATTTCAAA	ACAATCACCT	GACAAGTAAG	ACTATGGATC
40851	CTTTGTGACA	AGTGTTGAAA	ACAGAGCAAC	CATCTGTTTC	TTTGAAACAG
40901	AACTTGGTCT	TTCTCACTG	CTGACCTCGT	GCTGCCCTCT	ACAAATTCAT
40951	TGTAGAGGGC	AAACCATTCA	AATTCAGCAC	AACAAAAATA	AATTCCAAGC
41001	AATAATTTCT	GTTACTTTAG	TGATTTAATT	ACCACAGGAA	CAGTCCAATG
41051	ATTCCTGGAT	GCAGAACAAC	AAAAACAGGG	CTATGACAAA	AATGACAATA
CR1 - GG					
41101	TATCCAAACA	ACAAATAAGA	GTGGACTTG	ATGATCCCTG	TGTATCACTT
41151	CCAACCCAGG	ACATTCTATG	ATGCTATGGC	TCTGTGTTCT	AAATGGCAAA
41201	GACCGCCTCT	GTTCAATGGT	AACCTCTCTA	ACAGGGCATC	TTAGAGCCCT
41251	GCTCCTCTGA	AATACAAAAA	CAAAGGTCTA	CATCCTGTGC	TGACTGTTTT
41301	TGGTATTTTT	TCAAATAAAA	ACCCAGAAAA	CCATCACTTC	GGTTTTAGAC
41351	TCTCAGCTCT	GGTACTTTAT	TACATTAGGA	AGGCTCTTAG	CCTGCTACTG
41401	CAATGAAAAA	CACCAGTAAC	AAACAGGAAA	TAATTTATGA	AAGTTGTATG
41451	AAATAAGGCA	TAGCTGTAAC	CATAAATGAG	GCACAACCTG	TATCTATGGG
41501	GCTATAGTTT	GAGAGCTGGA	TGAACACCAC	CCTCAGAACG	AACATCGGCT
CR1 - GG					
41551	TTGCTCTTCT	GCTTACTCTG	GGCCCTCTGA	TTTCACAGAA	GGGCGCAGGT
41601	TGGAAGGGAC	CGTAAAGCCC	ATTCAAGTCC	AATCCCCCTT	GCATGGTCA
41651	GGCTACACCC	CACCAGCTCA	GTCCGCCAG	GGCCCATCC	AACCTGGCT
MAR (0.72)					
41701	TGAGCACCTT	CAAGGATGGG	GCACCACAGC	TTCTCTGGGC	AGCTGTGCCA
41751	GGGCTCGCA	ACCCTCTCTG	AGTAAGGAGT	TTCTTCCTAA	CATCTAACTT
41801	TAATCTCCCC	TCTTTTGGTT	TAAAACCATA	CCCCTTTGCC	CTACCTCTAT
41851	CAGACCATGT	AAAAAGTCAG	ACTCCCTCCT	GTTTATAAGC	TCCCATCAAG
41901	TACTGGAAGG	CTGCAGCAAG	ATCTCTCCCA	GCTTGGTCAC	TATAAGCACT

Fig. 1-16

41951	ACATAGCCTT	AAGCTTACAG	GCATGGACAT	GGTTTAAATA	GGTTTAAAC
42001	TACTTTTTGC	ACAGATTATT	CCTGGATCTA	TTTGAACCG	GCAACACAAG
42051	CAGTTCACCTC	CCACAACCGA	AGGCTAAAAT	AAAATAAAAT	AAAATAAATA
42101	ATAATTAAAA	AAAAAAAAAA	AAGGAATAGA	GAGCAGACAA	GCATTTCCAA
42151	GAGTCGTACT	CTCAGCAGAA	ACCCAGTCCA	AACTACGCCT	CCAGCTCACA
CpG island					
42201	GCAGGCCGCA	GTCTTGCCCTC	AGAGGCCAAC	GGTCTTCTG	GTCCCAGCCG
42251	GGCAGGTGAC	TACCCGGGGT	CCTCCGGCGC	CTCCGAGCCC	CCACCCAGGC
42301	CTGCTCGACG	CCCCACCGCT	GGTGTACAGC	CTTCTGCCCC	CAGGCCCAGC
42351	CTGGCGCCCC	ACCCCGCCGA	GCCCCCCTC	CCACCCGCCG	GCTGCAGCGC
42401	ACCGGGGTTC	AACAGGACCC	GCTCTACCTG	CAAGTTGCCC	GACATGGCGG
42451	GGAGCCGGGA	AGGGGAAGGA	CACGAGACGA	CACTGGCTAC	GGCCGACCGG
42501	AGCTGCCCTT	CCCGCCACCG	CCGCCACCG	AACCGAAAAG	CCGGCCTTCG
42551	CTAGCCGCTT	CCGCACCTCA	GCGCCGGCCG	GCCCGCTTCC	GCTTCCGGGC
42601	AGCGCCCCGT	ACGCGTCACT	TGACGTCAGC	ACGCCGCGCC	TCGCCCCGCC
42651	CTATCCGAGG	GGCTGAGCGC	ATGCGGGCCG	GGCGCCGGAA	GCGGAAGTTC
42701	GTGGGTGCGC	GCGCAGCAGT	GGTGCTGAGG	GAATGGGGGT	GGTGTTAGGT
42751	CCAGCACTGA	CGTAGGGGAT	AGGGCTGAGA	TCTGATCATG	ACCTACTGTG
42801	GGGAGCCTGC	TGTAGCAGAG	GTTGGGCTGG	ATGCTCTCCA	GATGTCCCTT
42851	CCAGTCCCTG	CGATTCTATG	ATCATTTCTG	TAAAATGTTA	AATAGTCACT
42901	TATAGGGTTT	TGAATAAATC	ACGTTTTTTC	CTCATGCCTC	ACGTTTGGGA
42951	CACAAAGACA	TTTTTTTCTT	ACATCTCTTC	TTTCTCGTAC	CATTTGCTTG
43001	CTTTCAGCGG	CACTGTCTTT	TGCATAATCT	GAGTGCAGAA	TGCTTTTTAT
43051	TCACAGAACC	AGCTCTTAAT	AATTCTGAC	AGTCATAAGC	AGTCAGGCGT
43101	TAGTCACCTG	CAGCTCAGTA	ATGAAACTCA	ACTAACAGGT	CTGCAGAGTA
43151	AGAGCAATGA	CGTGAATCAG	AAAGCACAGC	ACATTGTAAA	CAACTCTTGT
43201	AAACTTGCTA	TATGGGTTTC	AGACTAATGA	ACTTCTGCTA	AGTCGGTGCA
43251	ACAGTTGTGT	TAAATTACTG	TCATATCCTT	CCCTATGTTA	TTGTAATACT
43301	GTTGAGGAAA	TGCTTCCTTA	GATTCACAAT	CCTCGTTTTT	CTACCTGCCT
43351	CCAACTAAGC	CCAGTACAGT	CTGCTCTGGG	ATGAAGGTAA	AAGGCACAAG
43401	CACAGTCAGC	CCTATATCTA	GGAAGGTTGA	TGTAATTTCT	TCCTAAAGTC
43451	CTCTGCTTGG	CAGCTTGTTT	TGCTTAATGT	CTTCATATGT	GCACACCAGG
S gene exon 1					
43501	CAGGATGCTG	AAGGCTCGTT	GTTTGGGGAT	GATCAGTAAC	AGCTGTTCTT
43551	CTATTGCAAA	TGTGAAAGGG	TACAATGTAG	CAAAAATTCC	TGGATGTAAT
43601	CAGGCTCTGG	GAAATGAGAA	GGCAAAGGAA	ATGTTGGAGG	TAAGAGCAGC
43651	GTTCAGGAAC	CAGAATGATA	TGGGTTGGAA	GGGATCTTAA	AGATCATAGA
43701	ATCATAGAAT	CGCTAAGGTT	GGAAAAGACC	CACAGGATCA	TCCAGTCCAA
43751	CCATTACCCC	ATCACCAATG	GTTCTCACTA	AACCATGTCC	CTCAACACAA
43801	CATCCAAATG	TTCTTTGAAC	ACCTCCAGGG	TCGGTGATTG	CACCACCTCT
S gene exon 2					
43851	CTGGGCAGCC	CATTCCAGTG	CCTGACCACC	CTTTCAGAGA	AGTAGTATTT
43901	CCTAAAGTCC	AGCCTGAACC	TTCCCTGGCG	CAGCTTGAAG	CCATTCCCTC
43951	TAGTCCTACC	ACTAGTCACA	CGAGAGACGA	GGCCGACCCC	CAGCTCACTA
44001	CAACCTCCCT	TCAGGTAGTT	ATAGAGAGCA	ATAAGGTCTC	CCCTGAGCCT
S gene exon 3					
44051	CCTCTTCTCT	AGACTGAACA	ATCCAGCTC	CTTCAGCCGC	TCCTCATAAG
44101	GTCTGTGCTT	CAGACCCTTC	TCCAACCTTG	TTGCCCTCCT	CTGGACACGC
44151	ACCAGGCTCT	CGATGTCTTT	CTTACAGTGA	GGGGCCTAAA	ACTGGACACA
44201	GTAATTGAGG	TGCAGCCTCA	CCAGTGCTGC	GTAGAGGGGG	AGTCATCTTG
44251	TTCCAACCCT	GTTTTCTGTG	AGGTAGTATT	TCTGGCTGTG	CCATCTGTAC
44301	CTATGGTTTT	CAAATCTGTA	ATGCTACACC	TAGCTTTTAG	ACCTAGGTCT
44351	AAAACAGTAC	ACAAGTCACA	GGCATGTTAG	TAATGCCTCT	CCAGTCACAC
44401	TTTGCACTCT	TCCGAAACTC	CACATATAGA	CATGTTTCTA	TGATTGTGAA

Fig. 1-17

44451	TGAGATTAAA	AAAAAATAA	ATTAATAAAT	CAGAAAAGGC	ACGTGTATAT
44501	TTACAGATAA	CAGGCTAAAT	ATTATACTTC	TTAATTAAGC	TTTACTATAC
44551	AGTATTCTCTG	TTATGTGACT	TTGCAGCTAG	TTTTGCCTAA	GGAAATACTG
44601	GCTGAATGCT	GAGTAATAAC	ATCACGACAG	ACTCCTGAGG	AGCTAATGAA
44651	GTATTACACC	AAGAGTGTAG	CTTCAGTTTG	AGAGACGTGT	ATGGTCACAT
44701	TTTGGAATGC	TTCCCATTGC	TGAGTTGCTG	TGTTACAATA	TTCTCAAAAT
44751	CCGTGTCACT	TATTGTGTTC	AACTGAGTGT	AATGACAATA	AAATATATTA

CR1-GG

44801	ATGACGTTAA	ATGAAGATAT	CATAGAATCA	TAGAACATCC	CAAGTTGGAA
44851	GAGACCCACA	GGGATCACCA	TGTCCAGCTC	CTGGCTCCAC	ACAGCACCAC
44901	CCAAAATTCA	AAGTTGATGT	CTGAGAGCGC	TGTCCAAATG	CTCCTTGAAC
44951	TCTGGCAGCT	TGGGGCTGCC	CTGGGCAGCC	TGTTCCATAC	CCACCACCTT
45001	CTTGTTCCCT	CGGGCTCTGT	CGCAGTCACA	CAGAGCAGAG	CTCAGCGCTG

CR1-GG

45051	CCCCTCCGCT	CCCTGCGAGG	AGCTGCAGCC	GCCACCAGGC	CTCCCCCTCAG
45101	CTCCTCTGCT	CTGGGCTGAA	CAGACCAAGG	GCTCTCAGCT	GTTCCCTCATA
45151	CACGTTGCCC	TCCAGATCCT	TCCCCATCTT	TGTGGTCCTC	CCTTGGACAG
45201	TCTCTAATAG	TCTTATGTCC	TTATATTGTG	GCACCCAAAC	CTGCACCCTG
45251	TGCTGGAGGT	GCAACTGCAC	AGCACAGAGT	AGAGAGGACA	ACCCTTTCTT
45301	GCACTCGATG	GCAGTGCTGG	GCCTGATGTA	CCCCAGGGTA	TAGTTGGCCC
45351	TTTGGGATGC	TAGGGCACAA	CGCTCAGTCA	CATTCAACTG	TCTGTCAACA
45401	AGTACCTATT	GGCCTGCATG	AGGCCTGTCT	GCTAATTGGG	ACTCTATTAA
45451	ATCACATCAC	TGTGACACTA	GGTGGCACAG	GCACACATGA	TCTCCATGTT
45501	CCTTAAGGCT	GAGTGAATCA	TGGAGAATGC	TTCCTGCTAT	CAGTTTTTTGG
45551	CATGGAAAGA	GAGGAGCCAA	ACCACCGGTT	GGTTCAATGC	CTTGTGCCAG
45601	GAATAGGTGA	ATGCATCAAT	ACAATAAGTC	ACGTCTACAG	CACAGCCAGG
45651	CCTCATGTCA	GCAATACTGC	TCCACTGTGA	TAGCTGAAAG	TGACTATAAA
45701	TGACTAACGT	TAGTGTGGGA	CTTTGGTGTT	AGATGACGTG	AGAGCCATGC
45751	AGTGAAAGAG	AATTAGTGTG	GCAGAGTATC	TAACAGTGCA	GGTAGATAAG
45801	GCAGGAAGGA	TAAGTGTAAG	GAAAGATAAG	GAGAAAGGCA	GGAAAGTAAA
45851	ACCTCTGTTT	TTCTCTAGTT	TTCTACCTGG	TGAAATGATG	AAGAAAGATC
45901	AGTTTGACAT	AGGTTAACAA	AAACTGTCAG	TAAGAAAGGT	AGGAGTTAAG
45951	ATGCATGTTG	TCCAAATCCC	ACTACATTAC	TTTGACCCTC	TTCAGCATAT
46001	GCACAATGAG	ATCACTTGCC	CAAGACAGGA	CCTCCAGTGG	GCATGAAATC
46051	TGAAAATCAA	TTATTTGCTA	TTTGTGTTGC	TTATCATTTT	CAGATGAAAT
46101	TCTACACGAG	ATAATTAGAG	TGATGTCCTT	GAAGATCAAC	CTTTTTGTCT
46151	AATTAAGGTA	TTTGCTATAG	CTTCCAGATG	TATTGCTTAT	CTATGATAAA
46201	TATCCTTCCT	AACTACAAGG	CTTCTATAAT	AAGAGTAACG	TCCTCTATAG
46251	TAACCAGTAG	AAAGTAGGTG	GAAGCTGGGT	GTTCTTAGAC	AACCTGTGCC
46301	CATACATGGA	CAAAGTGAGG	AGGAGGACAC	CTCCCTAAAT	GACCACCAGA
46351	GACCACTGAA	GACCCACATG	CAAGCACAGA	AGATTCAGAT	GTGTTGGTGT
46401	AACCTTGTA	ACGCAGTAAT	CTCGTGAATA	TGTGATAGAT	AGGTGTGCCT
46451	TATGTATTAG	ATAGGCGAGT	ATTGAGAACT	TTTGGTTTAT	GGATGTGGAT
46501	AGTGCTGTTA	TCCATCTTGC	ACCCTGAGCA	TAAATAAAGC	AATATCTCTT

S gene exon 4

46551	CTATAGTGCC	TTGTCTTTTC	ATTGTATTTT	AGGAGACTTT	GAAACTGACA
46601	ACAGGCATGC	AGCTTGGGAG	TGCTCACAGT	CAGTCTGGCC	ACAGTGCCTT
46651	CAAGCCTCCC	CTGCACTGGG	ATGTGGTGTG	ACAAAAAGCA	CAAACACTGC
46701	TTTTGTAGAA	GACCCAGACC	ACAGGCTGCA	CTAGGGAACG	TGTCTGCCTG
46751	GAGCACAGTG	CCCTGGGGAG	TGCTGCTGGT	ACAGTAGTCC	TGGATGAGTG
46801	GCTTCCTTCT	GTAACCTTTT	AATTGCACTA	GAAGTACACC	AGCATGGCAG
46851	AGAAGGGCTG	GGTCCTAAGA	GCCCTTCTTT	CAAATTCAC	CAGAACTCCA
46901	GATGTTTAGG	CAGGGTGTTG	TAGCTGTAAA	GTCCAGGAAG	AAAAGGTTTA
46951	AAGCTGTACT	CGGCACCAGA	AAGACTGGAG	CCAAAATAAA	GCCACATTGC

Fig. 1-18

47001	ACCCATGGCA	CTATAGGCAA	AGGGTAGCCT	TGGGGCAAGA	CTTGATGTAC
47051	TAGAAGTTGA	GGAGTCCTCA	GACTCTGTGT	CAAGGGGATG	TGCCACAAC
47101	CTACTGTGCC	CCTACCTGAA	GCCTGAATCA	GTACAAATGT	CTCACGCATG
47151	GGTTAGGCAT	CCTTCTCTCA	AAGCTCTTGG	TCTTTGCACA	CTTTCTTCTG
47201	CAGCTGCAGC	AGCAGCCAAA	GGAAAATTAG	GTCTTGCTTT	GAAAGCCAGC
47251	CCCTTCCAGC	CATGACTGGT	CCCTTCTCAC	TCCACATCTG	TGGATGATGC
47301	TCCCACAGCA	GGTGGGAGAG	ACAGAGGCTT	TCTTGAAGAA	ACCCAGCCCC
47351	TCTAGGGGAA	CACTGTAAAG	TCACAGGGGA	GGAGACGTGG	CTTTGAGACA
47401	GTGATATACT	CCATGCCCC	GGCGTCTTTC	CCCTGAGTGC	CACTGGTGCT
47451	GCTCAGTGGT	CACATGCCAC	CAAAGTCTGC	ATTCATCTTT	AAATGCTGCT
47501	GAGAATTCAA	CCTTTGATAA	ATCATCTGCT	TTGACAAAAT	CGACATTTAA
47551	AAATTAATAT	TTCTCTTCC	ATCCCCTACT	TTTACAGGCT	GGCTCAAGAA
47601	AATGGGAAGC	TTAATGTAGA	CTTGGGTCTT	ACTAAACCAT	TTCAGTGGGA
47651	AAGACATTCA	CAGTCTGTGG	CAGATGGTAG	CAGTATATTT	TCTCTCATAG
47701	TACAGGAATG	GGTCTGGTAG	TACCTCTTTG	GAAAGGAAAA	TGTAAACTCA
47751	TACGTTTTGA	GCCAAATTCC	ATCAGATTTC	TTAGTTTTGT	TAGTTTTTCAC
47801	TCCACTCCTG	CTGGAACTG	AAAATATGGA	AATGCTTGGA	AATTTACTGT
47851	GATTTGGGTT	CAGGTGTGTG	TATGCAGGAA	ATGTGTTACC	TTCCAGAGTA
47901	AGTCAGTTTA	TTCTAGAAAT	GGGATGACTC	CACTTTTATA	CACTTGTAAT
47951	TCACAGTGAG	ATTAATCCAG	CCAATTGGGA	AAACAGCCTT	TCTTAAATTG
48001	TGAAAAACAT	GCTCCACTTC	TATGTATTTT	TTAATATACT	TCAGCATTGT
48051	GAATTTGAAG	TTTTTCTTCT	ACTGTTACAT	GCATTCCAAC	AGAATTTGTC
48101	AGGAACAAAA	ATGAAATCTG	AAATAATATT	TTTCTTAGCT	TTGCATGTGT
48151	TATCCTCAAG	GGTAATCACT	GTCTTAAACA	ACATACTTAT	GGCTGTTTCT
48201	GAGCCTTTCT	TCTTCATGAA	CTCATCAGAA	AGGGACACTC	ATATTGGCAG
48251	TCTGTATAGA	GAGCCAAGGA	CAAATATTTC	GCCTACGTCT	TCTCTGCGTA
48301	GCATTTTATA	TATTAGGTCT	TGCTAGTGAA	TTATGACTGA	ATGGAATACA
48351	GTCCCTTCAG	TGATGACTTC	ATTCATGATT	GAATAAATGT	AGCTTCAGGG
48401	CTGTATGGTT	GACTTACATC	ATCCAATTTT	GCCATCTGCA	ACAGCCAACA
48451	CCTCTACCCA	TATATGAATT	CAGCGAGGGA	TTTTGTACTA	TGTGTTGCTG
48501	GGATGTAGCA	GCATTTCTCT	TTGAAATGTC	TTTACAGATG	CAATGCCTAG
48551	CAGGCTTAAC	AGCCCTACCT	GCTTCAGAGA	CACTGCTGTA	AAAAGAAAAA
48601	GAGAAGCTTC	CCAGCCAGTA	TTTCATCAAG	TTAAAAAATA	TCTAAAAGTT
48651	TATACTGTAC	CATTTGGATT	GCTGCATGTT	GACATCATT	AGGATTCTGA
48701	AAACCTAAAG	AAGCTTTGGA	GCAACTCCTA	AGTGTATGGT	AGATGCTCTC
48751	ATTATGTAAG	AGTGACAAAT	CACTACCAGT	CTTCCAAAAA	TGCATGCTGA
48801	AATCAAAAAA	GAAATAATGG	ATCTCACAAA	ACTGGATCTG	CAGATCAGGT
48851	TCTACAGCCT	CTGGTATGCA	AGGGTTAAAG	TAGAGTGATT	GTTGTAGCTT
48901	GTGTCTCACA	GTCAGACATA	AATCTGTAAG	CAGGTCCAGG	TTTTGTAAAT
48951	TGTTGCTTAT	CACCACATGA	GCAATAAGTA	ATCTGAACAC	CCAATGTAAC
49001	AGATTTCTAG	GAGTTAGGGC	TGAAAGCATC	ATGAAGTTTA	TTCTTTTCTA
49051	CAGCAAAGCA	GGCTCTGTGT	ACCTGTCTAG	CCACATTGTC	TCTGACAAAA
49101	TTTATCATCA	ATTCTCATCT	CCATCAACTT	TTAAGAATTA	CAGAATTGAA
49151	GGGAGGGATT	GTTGAAAGGG	ATCTCTGGAG	ATCATCTAGT	CTTACCCCAT
49201	GATGAAGCAG	GTTCCCTTACA	ATAGGTGGCA	TAGGAAAGTG	TGAGCAAACA
49251	CCCTGCTGTG	AGCACTCAGT	GTAAAAAGAA	AGCCTGGAGT	AGAGACCAAC
49301	ATCAATCTGT	ATTGCATCCA	AACCAGAAGA	GGCAAAAAAA	GTGTCTCACT
49351	AAGCTTCAGA	AAGTGTAAC	AATTCACAGA	AGATGGATTA	TTGTGGAGAG
49401	AGTAAATGTG	TGCAATTTTT	ATTTTCCCCA	ATATGTCACC	ATTACAAAGG
49451	AAAATCATGG	AATGGTGGAG	GGTGATGGAG	GCCTAGCCTG	GGGCCCCAAT
49501	ACATGTAGCA	GTGGACAGTG	AGGTCACCGA	CCAAGCGGTT	GTGATGTCAG
49551	CAATGGAAAT	GACTGTGACC	TCGCTAGCCC	TCACTGTACA	GATTTGGGAT
49601	CTGGCAGAGG	CCAGCGTGCA	CTTGTGCCTG	GACTCCCGTT	GAGCATAGCT
49651	GCGAGACTTG	GAGCAGTGAG	CGAGTTGGTT	GAGTTGTGCT	GTGGGGCTGC

Fig. 1-19

49701 TGGCAGCAGT TCTTGGTGCC CACCCACAG TACCACCAGC GTTTCCCCCA
 49751 GCCCTGCCTG CCTCAGGCAG CTGGGGCCAC ACAGGGTGCA CTTGTAGCAG
 49801 CAGAGGTGAG TGGTACAGTG GGGAAAGTGG GGGGAAGTGG GAGGGTTTGC
 49851 TGCTGAGGGA CCAGGACATC TGGACAGCTG CCTGCCCATG GGACAGCGAG
 49901 TGACCATGGC CTCTCTCTCT CTTTGCAGTT CGTAACACCT TCTGCCTGCT
 49951 GCAGCACCTG TGAGGGGAGC AGTTTCCTGA CCTCAGCTCT CCCAGCCAC

T gene

50001 TGCACAGCCC GGGGCCATGG ACGTGCCGTC CAACTGGACC TGCCCCATCT
 50051 GCGGGCAAAG TCGGGAGGAT GTCACCTATG TGACCCCTG CCAACACCAG
 50101 CTTTGCTATG GCTGTGCCAT CTGGTGGGCA GAGAAGAAGC CGAGTTGTGC
 50151 CATATGTGGG CACCAAATCA CCACTATCCG ATACTCGGTG AGGTGCGATG
 50201 ACGATTACCT CGAGTGTGCT GTCCCGCAGC CCGCAGCACG CTCAGATCAC
 50251 GGCCTGCAGG ACGAGCAGGG GCCTGCAGAG CCGGTGCTCA TCCACCTGA
 50301 GCACAACTTC CCCGCCGAGG TCTGGGCTGC ATTTTTTGAT GGACATCCCG
 50351 AAGACCTCGA GCCCCTGCTC CACTGGCTGC AGGATGAGAT CCAGCAGTTG
 50401 ACCAGAAATG GGTGGTGGGC AGTGTGTGTT GGACAGTGGA CTGTTGTAGG
 50451 CCTCCTTTGT ATTTTCGGAC TGGACGAGGA GGCCTTGGTG CAGGAGCTGC
 50501 AGCCATTCTC TGATGCTGAC TTGGTGCCCT TTGTAAGGCG GCTCATCAGC
 50551 ACCGCTGCAG CCCTGTACGG CCCAGTGATC CGCCGCCAGC TCGACCAGCA
 50601 GGAAGGCTGT GCTGCAGGAC AGCGGGAGGA CAGCCCCGCA GCCAGCCCCA
 50651 GCACCACCAC CTCCCATCGG GAGCCTCCTG CCTTGCGCCC AGGCCGCTCC
 50701 ACCAGTCCCG CAGGGCCCAG CACCGAGGAG CTGCCCCGCA GCTCTACTGG
 50751 GGGAGCTGGG CACCCAGCA CCACCACCGC GCCCTCAGTG GAGGAGCCGC
 50801 AGGAGGAGCC ATGGCAGGCG GTGGCAGCGG GCCCCTCCAC CCAGGGCAGG
 50851 GATCGCTCGT GTGGGGGGCC CCGGCGCCCC CCGAAGAGGA AGGCCACAG
 50901 CAGCCCCCAG GCCTCACCCC CGCCCCCAA AAGGCGGCCC CGACGGCGGC
 50951 GCTAGGCCGG CACCGCACTG CCGTCAGAGC ACGGCTCCAG TGGGCTGGGA
 51001 GGCCAACATC TACCTCTCGG CCTGCTGCTT GCAGATAAAA TGTGGGGATT
 51051 CAAGAAAGAA TATTTAGAGC ACAAGCTGCA GAACAAGATA AACAGCATGG
 51101 GAAAGGAATG CTGAGGACAG AGGATGCCTC CAAGAGAGAA GAAAGTCAAG
 51151 TGAGCTGCAT GATCGCTGCC TAACAATCCT AATTGGAAGA AGAGTATGTG
 51201 GCTAGGAATG ACTCATAACT CTGATTGGAG AAGCGCTGC ATGCGTGGTT
 51251 AAGGAGTAGA ACAAGAGCAA GGGTGACCCT GTGGGATGTT TTGTTGACAT
 51301 GTAAAGGGGG TGGGAAAGAT ACCAGAGAAA ACTTGGCAGT GTATTTAAGG
 51351 GATATTAGAA TATGCAATAA ATGATTTGGA TTGCTCATAC ATCTGAGTCC
 51401 GTGCCCTTGA TGCTGCAAGA AAATAAACAG AAATTCAAAA AAAAAAAAAA
 51451 AAAAGGATAA GAAAATGTCT CTGTGTTATT GACAAGGCTG TGGGCGTTGC
 51501 TGTCTTTTCC CATGCTGCTT TCTCCCTCTT TTTCTCCTGG AGGTGAGCAC
 51551 AGACATGCAG CTTTATTTCC ATGACCATAA ATTGGCTTTC ATGACAGCAC
 51601 TAAAAAACA CACGAGGGCT CCAACAAACA GAGAAAGGAA CTTATGTTAC
 51651 TCTAATAATA ATCCAATAAT CAGGGCTTCA CTAATTTCTT CTCATACTGC
 51701 CAGCTCCAGG CCACAGATAA TTAAGTTTTG TTTGATTTCA GTGACTGAGC
 51751 TGTGATGTCA CCCTCTCTGT AGACTTCCTA TTAGTCTGAT GTTAAAAACA
 51801 CCAAAAATAT GTGCTGTAAT CCAAAGAGAA ATTATGGGTC CCATTAAATT
 51851 GGTACTTTGG GTTCTACAGT CTCTGTTATG CAAGAGTTCA AGCTAAATGA
 51901 TTGCTGTAGC TTGTGCACGA GTTTTGAAAA GATACCAATC TGTGAACAGA
 51951 CCCAGATTTT CTTTCTGGAA TTCTCCTCCC CTGTGCAAAG GAAAGCACAT
 52001 TGTTTTTTGC TCTCATCAGA GAGTACTCTG AAATGAACAT TTTTGAGTTA
 52051 GACAGTGAGG AGCAGAAAAG AAATTCTATT CACATAGGTG CTTTTAAAG
 52101 CATTACCAGA TTCTTCTAGA CAAATGACAG AGGAATAACT TTTGCCATTTC
 52151 CATTACACAA TAGAATAACT GAACTGCAAA ACAAAGAGTC ACGCTACAGG
 52201 AGTAAGTTTT GAACTGACT TGCTTACCTC TGATGCTTCC AGCTGACTTT
 52251 CTCCATTCTC ACAGTAGATT CAAAGTTCTT TTTTTTTTAA CTGTGTGACT
 52301 GTAGAGAGTA GTGTTCAACA CTTAACTGCA TGCTGTGCAG TCTGAATTAG

Fig. 1-20

52351	AGCTGGGGGT	AGGTGATAAC	ACACCTCCTT	CAACTGTTTT	GTTTTCTCTGA
52401	ACTGTGGTTT	GTCTCATTAT	TTTCTTCTAA	ATGCTATTTT	AAGCAGTAAG
52451	AGTTTAAACA	TGCCTTCTGC	CTGCCTTAGA	ACTGCAGAAG	ACCTTAAATG
52501	CAGAACTCTT	ACTGTTCTTG	AATTCATGGG	AAGGTCTGAG	GAAATGGGGC
52551	CATCCAAGAT	GTCTCCAAA	CAATACGTTT	CCTCATTCCA	TTATGTGTAA
52601	GGTACAGTGG	TGTTGTACCA	GGGGGTGAGC	ACTGCAGTGG	TAAGTGCTGT
52651	TGGACCTGTC	GTGCAAGAAT	AGAAAGAAGT	CCCACAACAG	CCAAAGTCCA
52701	GTGGCTGGAC	CAGGAGTAGC	CAACTATGTG	GCTGCTGTGA	TTTGATCCAC
52751	ACCAGATTTC	CAGGTTAGCA	TTTTCTCTCT	AGACCCATCC	TTATTAATCC
52801	CTAAGCCTTT	TAATTAGTTC	TTGTATGGAA	AGTAGCAGAA	ACTGTATAGG
52851	AAGTCATTTA	TCTTTCTCTT	CATCCTAGCC	ACTCTTACCA	GAGTAATTTT
52901	CATCTTAAGC	AGGAAGCTCT	TCAAGCCAGG	CTATTATTCC	ATCATAAACT
52951	GTCTATAATT	CTTCTACACG	TATGACATTT	TGTCTACATC	TTCCAATATC
53001	TGTCTCACTA	ACAAGCCTGT	TTCTGTTTTT	TATCCACAAC	CCATCGAATT
53051	TGGTAGCCAT	CTTTCAGTGT	GGCTTTGGAT	CTTGACCCAA	GAAAGGAAAA
53101	CGGAAGGGTA	TTTGCACGTG	CACAAGTTCC	TATAGACCTA	ATTGCAGCTT
53151	TCCAAGTCAC	TTATGCCTGT	TATGTAAATG	TTAACGCTAT	TGTGGAGTTT
53201	ATTAACTCGC	TGGATTATGC	ATGAAGTATC	CTCTGGAGTT	TCCCCATCAA
53251	GCTTAATGGG	ACCATTAGAT	CTCAGAAGAA	TGACGAAAGC	TATTTCTCAG
53301	TAGCTTACAT	ATTACCTGGG	TAGATGTAAT	GGGAAAGAGA	AAAAGAAGCA
53351	TTCTGTTATC	AATTCCTAGC	ACTTTCTTTT	GTAAATATA	GGCTATTTTT
53401	TTTATCATTC	ACAATTTTTC	CTACTTTTCC	TTTTTTTATG	GCCTAGTATG
53451	TTCTGTGCTT	TGTTACACAA	ATCTAGGGAT	CCTGGGTTAG	TGGTGATATG
53501	AGCTGAATCA	GCTGCTGAAT	GTAGGAATAG	CTCACTTGCT	TTCATGGGTG
53551	CTAATCAGTT	TACATTAGCT	GAGGTTTCAGG	GCCATTGTTT	GTAAAGATTT
53601	ACATCTGGAT	GTCAAGATGG	GTTTGCAGGT	ATAACTTTTA	TAAGTGACTG
53651	GTGAGACAGC	GACACTGTAG	GGTGTTTTAC	TTCGAGTAAT	GCAGAAGAAT
53701	GTACACTGAT	TTTGTTCCTT	TTAGCAGATC	TGCCAAATAC	CAACTGAAGA
53751	AGCAAGAATT	AACATGTTTG	TTCTCTCTCT	TAGTTGCATT	CAGGGACAAG
53801	AAAAGCTCCA	TCCTCTCCTG	AAAATACACA	GCTGGAGAAA	ATTCAGACCA
53851	TGGAGGCAGA	CCCATTTCCT	GTGTCTATTT	CAGCAAATAT	TGACTCTAAG
53901	CTTTTATTGT	CCTTTAATAT	GCATATATTC	ATGCTGTGAA	TCTATGCTGA
53951	AGAACTCTGG	GAAGGTGTGT	GCCCTCACCC	ACATTAATCA	CCCAGACACT
54001	TCATAACTAC	CTGGATTACA	GGAGAAAGTG	ACTCATCTAC	TGATGACGCT
54051	GGATAAAAGC	AAGAGGGGAA	AGAAATCCCC	AGTTCTCACA	CCTCCCTCCT
54101	CTGCACATAG	TAAGGAGGCA	CTCAAGGGCA	TAATGCAAAC	CCAGAGCTGG
54151	AAGGGAGGCT	GTGTGTCAGG	GCCCAGGCCT	GCTGCTGTGG	GCAGCAAAGG
54201	CCATGTAATC	GCTGGACATG	TCAGTTCCTA	CTGCTCCGAT	CTGAAACCAG
54251	TTCAGAGTTA	GAGGGAGAGG	TCTGCTTGGT	CTCTCTGCTA	CTCATGGGAA
54301	AAGCACTTCT	GCCAATGTGA	TCTACTCTCT	CTTCAAAGTT	TCCACATTGC
54351	TTACGTGAGC	AATCCTATCC	CCATGCAGGC	TTTCTTTTGG	TAGGTGAGCC
54401	CCTGATAATT	CGAAAATCAC	ACCTACACTC	AGCTAGGAGC	TAACCAGATC
54451	TATAATCAAG	CACAGTATGG	TGTGGCTATG	TAGAGGAAGC	ATCTTCAATA
54501	AATGTACTGC	AGTGGTAATA	TGCTTTTAAT	AAGGCAACTC	TGTTACATATG
54551	AACAGTACTA	GAGAGAAGCA	CACCAGGCCC	TGAAACTTCA	GGGCAAACAA
54601	AGGTTTGAAA	GTATCCCTGA	ATTAAAATAA	TTGAGGAAAG	GTGACAAACC
54651	TAAGCATGTT	TGGGTTTTTT	TCTGAGACAA	GCATCGTGTA	GGTTGTTTTG
54701	AGCCCTAGTC	ACAGCCTGGC	AAAAGGAACC	TGGTGCAGTC	ACTATGGGCA
54751	CCAGAGAGGA	AGGAAGAACA	GTGTTGTCCC	TGTCCTTGTC	AGAAGGAGCT
54801	CTGAACCACA	GTGCACATGT	GTGGGGGTTT	ACAATACTGT	CTTCCTGGAA
54851	GGACTGGATG	CTTCAGTGGG	AAGTGATTAA	TCCAAAGCAC	TGTCTCTCTG
54901	CATCTGATTT	ATCTGTGCCA	TACCAAGGCC	AGTTATGCCC	AGTGCTAAGA
54951	GTTGGGAGCA	ATGTCTTTAG	GGAAAAGGTC	AGATGCCAAA	TGATCTGATT
55001	CCAGCACTTT	CATTTTCATCT	TTCATTTTCT	GTTCTCCAGG	TTAAAGGCCT

Fig. 1-21

55051	TGTTCTCACT	GAAAGCTGGC	AACTGTTTGG	CCGCCTGTTA	TTTCAGAGTT
55101	GTTTTATCAT	TATTATTATT	TTCCTGATGA	GATGTATATC	CCAAACAAGA
55151	ACAGGCTCAA	TAAAATAAAT	GAATGAAATT	AATTTCCCTGT	CTTTGATTAG
55201	AAATATTAC	TGGTGAGGCA	CACCTCTACG	TCAGCAGACA	TGTCTGCAGA
55251	AGGCTGAGTT	CTTGCTGGAC	GTGTTGAAAG	AGTGTGTTGC	TGTGTGACAC
55301	CATCCCTCAT	CCATCTCAGT	GCAGATGCCT	TGGGAAGAAA	GAGGAAAAAA
55351	GAGAGGTCAG	CTTGCTGCTG	CTCAGCTTGT	GTCTCTCTCA	GTATAATCCT
55401	AGAATGACAC	TTGATTATTC	TAAGTGCTAT	TGTAGTTGCA	AATCATCGTG
55451	TGGTTTGTAA	CTGTCAGTCT	GACCTTTACT	AGACATATAC	TGGAAAATAT
55501	TCTTGCCTGT	GACTTCTCTC	TATTGCTAAA	TAATGATCTA	GACAGATACA
55551	CAGTGAATAC	AGAAAGTTCA	GTTGTATAGA	CCAACTGACA	GACATTGTGA
55601	TTTTACCCTT	TGTTTTTTCT	AAGTGTGCCG	AGGAAGCAGG	TTGTTGTATT
55651	GAAATAAAGG	CATGCAAATA	ACCTGCTACT	GGCTCCCTCC	AAGATCTCAG
55701	GCTTGCTGTA	AAAGCCGTAG	CTAGGTCAAA	AGGGGTTGCA	CCTTTTGTGA
55751	CTGGCAGCAT	AATAAACATT	CCCCAGTTTA	TTCTGCTCAT	TATTCATCC
55801	CACCTGTAGC	CAATTTCTCT	TGTGGTCTCC	AAAGCATGAA	ATCTGCAATC
55851	AGACATGTCC	TGAGTGTCAA	TGCATTAGGG	AAATAAAATA	AGGAAAAAAA
55901	GACAACAGCC	GTCAGTTGGA	GTCTGTGAAG	GAGCTGAGCT	GGTTCATAGA
55951	ACTGTGTTGA	GCAGCAGGAG	CGTTCCTTGC	CCCAAACGAG	CCTGTCCAAG
56001	GGGTGGGAGG	AAGGAAGCTG	TTTTTCTTTT	CCACTCAGCA	GCGTGTAGCA
56051	ACAACGCCCT	GAAGGAGTGG	CAGGGTGAGC	CGAGACCTGG	GGCTGAGAGC
56101	AGACAGGATG	ACAGGAGTGT	TACCAGGTGG	CTGCATCCCT	CCTGCACACC
56151	GCATGGCCAG	GTGGTGGCAC	ATGGGGATGG	CTGCTGCGTT	CTGGTGCCCA
56201	GCAAGGCCCT	CGCTTGTGTT	TCCCCTTGGG	CTGTTGAAGA	CCTGAAAATG
56251	TTGGTGACCT	GGAAAAGGAA	GATGAAAGCT	CCTCTGTTGC	TTTGTTCAGAA
56301	GA CTGTGGCT	TGTCCTTGTT	ATGAAACTTT	GGACTGCAAT	AATGACGGTG
56351	TTTCACTTTG	CACATCCCTT	GTTCCATATG	TGTTTTGCCT	CTGTCTTTTT
56401	TCAGAGACAG	CATCATGACA	GGAGATGTCC	AACTCACAGG	GAGCTTTAAA
56451	ACAGCTTTGA	TTTTATTATT	ATTATTATTA	TTATTATTAT	CTAGTAAAGA
56501	AAAATCCTGC	TCTTCATTCT	GCTATCTTTT	TAACTTGATT	AAAAAACAGG
56551	TTGCAATAGA	TGTGTGTTGA	AAATTCTTGG	AGGTCAAACC	AAGCAAGACT
56601	AATTCGGTGA	CAGGTAAATG	CAGGAGATGC	ACAAGCTGAT	GCAGTTAGTT
56651	AGATGTCATT	CAGTCAGACT	GAGGAAGATG	AACTGGGAAG	CCAAGCTCCA
56701	GTGCTTGTC	CTTGCAAACC	TCAGGTACCT	AAGGCTCAGC	ATCTTCTGCT
56751	TTTCAAGTCA	GCATCTTTTG	CTTTACTGCT	TCTTCCTGGT	TGGGCCATAA
56801	GTAAGATCCA	GGTAAGTGAC	AGGCACTCCC	ATAAATACTA	ATGTGAAGAT
56851	ACATATAACA	TATACATAAA	ATGACTTTAG	GATGTTATTT	GTCTCTATAT
56901	GTGACACCTA	ATATTATTTT	AACATTATCT	CCAACTGTAA	ATTAACCCCA
56951	AATATCCATT	CTCTGGGGAA	GCAGGACTGC	CCTGTGAGCC	ACTCAGTTAC
57001	AGGAGCCCGT	GTGGACTCCT	TTCTTTGAAG	CATGGCAATT	GGTTATTTCT
57051	CTCATGGCAC	TATGATCAGA	AATCAGTCAT	TTCTCAGCAG	CAGCTGGGTC
57101	AGGCAGAAGA	GTTCTGTAAG	CCTACAAAAT	GCCAGACCTC	AGCTATCAAA
57151	GAGAAGTTAC	AGAGTGGAGC	GCAGTAATGT	TCATGCACCT	TCAGCTTTGT
57201	AATGTAGAGT	TCTTTACACT	TTCCCTGCTC	AGCTTTTAGA	AGTAACCAGT
57251	GCACCCCTT	GTATTTGTAT	TTCCAGCCTA	CATGGTGATG	GAGCTGGTGA
57301	TGGTGATAGG	AGGTGAAGGT	GGTGACCTGT	GCTATCTCTG	TCAAGGCAGT
57351	TGAGTTGTCA	GCCACTCCCC	ACCAGTGTGC	ATCCAGAAGC	TCCTGAACCA
57401	CTTCACAGAG	GGCCGTCTTT	AGTAGACTTG	GGCCTGAAGG	AAAGTTTGT
57451	CCTTTGGCTC	TAGATTACCT	GCAGACATCT	GAGAAGAGTC	TGGCAGCCAA
57501	CATTATTGCA	GATTTTTATC	AAAATTTCTC	TCATAGTGTA	AGGCATAATT
57551	AGATATGTGA	CAATAATTGC	CCAGATGACA	CATTTTGTCC	AGCTGTTCTC
57601	GATGTTCTTT	GAATTGCTTA	AACATATCCA	CACCTTAATG	TTTGTTATGA
57651	ATTCACCTAT	GGTAAAGCAT	ACTAATTTTA	TGTTCACTGT	CTGGTAAATA
57701	AATGAAGTTG	AACCCTACTT	CATCACAGCA	GAAAGGAAAA	TAAGATTTCC

Fig. 1-22

57751	TTTGGGTAAT	AATGAGTCTT	TTGGAAGCAC	ATATTGCTGG	GATCTGATCA
57801	GGAAGCAGTG	GTGTGATTTA	CACTCAAAAC	TGTCATTCCA	GAAGTAGATA
57851	ACTCCTCAGT	TGCCACTGCC	ACCAAGGAGG	TATCACATCA	GGGAAGACAC
57901	GTACTTTGGT	TTCCTAGCCC	TTTCATTGTC	CAGCATAGCA	ATCTTGAAAG
57951	CAAGCTCAAT	AACGTTTACT	TTTTTTGTAG	CACATCAGTA	GTCTAAGGGC
58001	ATATAGGGCT	GCCTGGGGTG	GGTGAGGTGT	GGACAGCAGC	TGTGTTTGTG
58051	GGTGGCAGTT	TCCTCATGAA	GGTTGACTTG	GACTCCAGGA	AGTCCCTTGT
58101	AGTGTGGTGG	GCAGCTAGAC	TTCGTGATGG	GAGAAGCAGT	GTGGAGCAGA
58151	GTAGGCCACC	TTTTCTTGC	TAAGGACTAC	ATACATTTT	CAAATCAAAT
58201	AAGACTGTCA	GGCTGCACCA	CCACCTTTCC	CTCTCCCTTT	CTTCAACCCC
58251	CTCCGCATTG	GATTCATCAG	TAAATCATGTG	GCCAATGAGG	CCTGAACCCA
58301	GTGGTTCCCA	TTCTGGAGAT	TCTGGAAAGG	AGCTGTGGCT	TTTTCCACCC
58351	TCCCAGCTGA	AATCATCTGC	TTGAGAGCAA	CACGGTGAGC	AGACATTTCT
58401	CTTTGAGCAC	GAGCCCCACT	CTGGCCTTGG	GCTTTTGAGG	CAACCAAGTA
58451	CACCACACAA	CCCTCACAAA	GACAACACTG	AGACACTATC	TTAACGCAGA
58501	CACAGATGCA	AAGTACTGGG	TTGCCATCAC	ACGTTTTGGT	TGCCTTCCCT
58551	GTGTGTCTTT	TTCACAATTA	CAATTTTTTA	CGAATCACAG	CAATTCCAAT
58601	GTACCTTGGA	GCACTGGTTT	TGCTCAGAAG	CTCCTTCAGT	TGCTCCTTCA
58651	CTCCTGCACC	CTCTCTTTCA	GAGTCTTTGC	TCCCTCCTGT	CTGGTGCCTA
58701	TTGTAGGGCA	CTTGCTGCAG	GCAACGTGCC	GAGGCTGCTG	TTTCCTGCTG
58751	GAGCATGTTG	TTGTGTTTCA	TAGCTAGGCA	GGCAAAGACA	ACTCAGGTGT
58801	GACTCATACT	GCTCCTCCAG	TTTAGGAGTT	GCTTGAAGAA	TGATTAAGGG
58851	AAAGAAAAAA	AAAAAAAAG	AAGAAAAAA	AAGCGAGAGT	GTGTGCGTAA
58901	TTAGGGCTGG	GAAAGTGGGA	GTGGTGTCAA	TGAGCAGGCA	AGCTAACAGA
58951	CTCTTCTGCT	CAGCAAGGTT	TCCGCACAGG	TCTCTAGTTC	TTCTGTGTTG
59001	ACCCATTTCA	TTGATTCAAT	TACCAGGATT	ATACCCTTGC	AAAGTAAGTA
59051	CAACATTTTT	TCTTCCTCTG	GTACTTTGAT	GCCTAACTAA	CAGTTATAAA
59101	ATCTCTGCCG	TGAAACGTAA	TGCATAGAG	TGAGCAGGAT	AAGGAAGCTT
59151	GTACAAAAAG	ACAGCATGTG	AAACTAAAGG	TGAAAAAAG	CCTGCTCAGA
59201	CTACAACCTT	CTGGTTTTGT	CCCAGCATTG	CTGTGTTTGT	CCGTCTACAT
59251	TCCTTACCCC	TGAAAAGATT	CGTTGCAAAC	GGTGAGTGGG	GTCTGTCAGG
59301	TGAGACTGCG	AAGACATTAG	GAATTATTAG	AATATTTAGA	CTACCTGTTG
59351	GCTGTTCCCA	ATGGCTTTTC	CTGAATCAGA	AGAGCAGGCT	GTATATGATG
59401	CCATGAAAAT	GCTCCATATC	TCTAAGTAGG	TGTAGACTGT	TTGAGAAGTT
59451	TACAAAAGAA	TATTCTTCTT	GTTTTCCACA	TGGGTTTCGTA	TGCTTTGCTC
59501	TGTTTGCTTT	GTCTAAGCCT	TGCTAGTTCA	AAGGACAAGA	ACTTAAGTCT
59551	ACTAATTACC	TACTTGATCT	TCAGTGTGCT	CATCCGGTTG	GAAAAATTCA
59601	CTGACTCTTG	AGGCACAATA	AAGGGTATTG	TGGAGACTCT	CTAATTCCTG
59651	GTGTGACTTT	CTCAATTGTG	TTGCTGATGG	TGCTTTTTTCC	ACAACCTGAT
59701	GAACACTCTG	ATCTCGCTAA	AGCAAAGCAT	CAGTCTGATA	TTGTGTGTTT
59751	CTCAGAGAAA	CATCTGTTCA	GAGGAAATCA	TGTCTTAGTC	ACGGAGCTGT
59801	GTAACCTGCC	TGGTGGAGAG	CTGCCATTTG	TGTAGAAAGTA	GGAGGAAGAG
59851	GCTCACAAGA	GTTTTGTTCC	TTTATATTTT	GTGTTATCCA	AGCAAGAGCT
59901	CCAGTAAGGT	CATGTTAAAT	GAGCTAGTTT	GGAGGGGGAA	TGCCCCACAT
59951	GTGGGTCTTT	TCATATCGTT	TATCTAAACT	GAAGTGACTG	CAGGGTGTTC
60001	ACTCACAGCT	CATGAGCTGT	AGCCCTAGTG	CACAGCCCCA	ATAGCAGCCC
60051	AGCTTGATG	GCCACCGCCC	GGTCTGCCCC	GGGTGCGCAC	TCCTCAGGGC
60101	TCTTTAACAA	AGGCAAGAAT	AAAATAAATA	CTTGCTCTGC	TTTATCAGAT
60151	GATGCTTACC	ATTCAGCTGA	CGTGACTTGT	CAGGTTTCCA	CACAGATGTT
60201	GCCGTTCTCC	TGATTAATGT	TCAGAAGATA	AACTACATTT	AGCTTTTCTC
60251	TTAGTAAGCA	AATAGCAAAC	AAAGCTTTGT	TTCTGTTGGT	TGCATTACAGG
60301	AGTGACAAAG	CAAAAATAGT	GTCCTATACT	ACTAAACACC	TTTAAGTTAT
60351	TTTTTTTCTG	CACTGATTCT	AGAGCCTCTC	AGCTTCCTCC	TGTATCTGAA
60401	CGTGTCTCTT	GAACTCTGTG	GCCCCATCAC	AGCTTTAAGC	AAAGCTGGGT

Fig. 1-23

60451	GGATCACAGG	CTGCATGTGC	TTAGAAGGTG	CCACCGTGCC	GCGGGCCTCT
60501	CAGAATGCTG	ACTTGTGCT	CTCCTGGGAA	AGCAGGGATT	CAGCCAGAAT
60551	CCAAGCAGCC	CTTCTTGAAA	TTTCATTTCC	AATTTTGTTG	ACTCCTCCCT
60601	GTGTGAGAGT	TTCCTGTGAT	TACTGACTCA	GGAGCTGTGT	CTGGTTTCTG
60651	GGACTGCTCG	TGGGCACCTC	ATGGGCTTTC	GTCTTGAGTG	GGGGCCTCAG
60701	CCCTTCTCAC	TCAGCCAGAA	CTTGCTGCAG	TGGGGTCACT	GACACAGCTT
60751	GGGGTGCTCA	GGGCTTTAAA	GAGGTTCAAG	ACTTCGTAAT	ATTTTCATGCA
60801	GTAAATTCCCT	TTCAAGCATG	TGAACGCTGT	GAGCTCCTAT	GTGTTGTATG
60851	TCATTAATGA	ATGCAGCATT	AAAAAAGAAG	GCTGATCAGA	TGCAGTTAAA
60901	AAAGATGGTG	AGATAGAGAT	TATTCTTTGC	TATCCAGCCC	TTATTGAAAC
60951	AGCAGGGTGA	AACTGAGGGT	GTTTTTTTCC	CAACAAAATC	CTCTGAATGT
61001	GCAATATATC	AGTAGCAGCA	CTAAAAGAAA	GAAAGTGATA	AGCCTTGCCA
61051	CTACCAGGAA	TAGATTCTCT	TGGCATAACA	AAGGCATTGA	GAAGCATCAT
61101	CAGCTACTGA	GTGAACAGGA	GGACTGTAAA	AGGTTACCCA	CGAAGTACCT
61151	CCAGGTTTCC	TCACTGAAGA	GGAACACAGA	AACCTTGCAA	AAACGATCCA
61201	GCTTGAATGG	TACCAGAAAA	GAATTTCTAC	GTCTTGGTGC	AGAATTCCAC
61251	TGGTGTAAGG	AAGAAGAGAG	TCATTTAAGT	TTGCAAAATT	TCACAATTTA
61301	TTTCCTTGCT	CTGAATATTT	TGCCACCCAG	GAGAGTGAAG	CACAGGTAGC
61351	ACATGCACAT	TTTAATATCA	CTGTAGGTCA	TTTGCCAATA	CGACTGAAAA
61401	TGCTGATGTT	AGAAAAGCAG	GATTGCATTT	CTGGCATGAA	GACAGAAAAGG
61451	AACGTGAAAT	GTTTTGAAGT	TATTATGATT	GCATATATTT	TCTTAGGCGG
61501	TAAGGAAGAT	TTGGAAGTCA	AAATAGCATC	AGGGCAGCCC	TAAGTGAAGA
61551	AGGATATTTT	ACTCCGCTAG	CAAATGAAAT	ATTTTTTCAGG	TAGACTGCAC
61601	ACATCATTCT	GGCATTGTGA	GATTATGCGT	GTTGTTTATC	TTCACGAGAG
61651	TGGTAGATGT	TGAATGACAC	ATTCTTGGTT	CCTTGGGTAA	TTTTCCACGG
61701	TCTCCCCAGT	GAGAAATGCC	TGGGAAGTTG	GTACTTGCCC	ATTTCTTCCA
61751	TTTTTACTTC	AGACAGAGAA	AGTATGCATA	TGGATTGTGT	GCTCGTGGGC
61801	CTTAAAGTGC	CCTTAAAGAG	AATGAGTTCA	AAGGGAAAAA	TAAGGTAGGC
61851	ATCCTGTTCA	GAGCAGTTTG	TGTAAGGTGC	ACAGAAGTGC	GTGTCTGTGT
61901	TGAGCGAGTG	CAGAAAGGCA	TTTTAAAGGA	TGATTTTACA	TGTGCTCCTT
61951	TGACCTGTTG	TTCCAAGTGA	CTCCCTCAGC	AGCAGTCCCA	GGTCTTCTTA
62001	TTTGTTTTCA	CTGTCTTTTG	CCACCATTTT	GCCCCAAGCT	CCCTCCTCCT
62051	TTGATGTATG	CGGAGTCCAT	CGTTTCTAGC	AAGCTTGACT	TTTCTGGTTA
62101	TTAGTTGCTT	TTATATGTGA	GAAGTTGTGA	CCACAGGAGT	GACACAGGAA
62151	TGATGCTTGT	AGTGCTGACT	GGCACTGAGT	TCTCACTTTT	ACACCCAGAA
62201	AAACTCTGAG	AACACTTCCC	AAACCTCACT	CTGACACCAG	CTTGATTCCCT
62251	GCTGACACTG	TAAAATGGGA	TCTCCCAGGG	TAAGCTTCGT	TACCAAGCAT
62301	CTTGGGACAC	TGCCAGTGTC	AAGGGAGATG	GACAGACCCA	TTCTGCTTGA
62351	AAAGCATCTT	ACAGGGATCC	TTTACATGTT	GTAAACATCC	TTCTTTTTCAT
62401	TTTTATTTGG	GGATAACTTT	CTCTGGTGCT	GTATATTTAA	TTTTTTTTTCC
62451	TCCTCAAGAT	GAATTGCTTT	CTTTGCGTTC	GGAGGCAATT	AGGAAATACT
62501	TTGTTGCTGA	TACCAACAGT	CAGAGCACTG	TGTGAGGGCA	CACTGCTGGG
62551	TAAGTGTGTT	TTTCAAATTT	GGATTTAAAA	AGTCTTGATT	TTATGCCATT
62601	ATCCTTTTTT	CACTTAATTA	GATTGTGCAT	TATATTTTCA	TAACCTTTTTG
62651	TACAGCGTCT	TTTAGCTAAA	ATTAAGCCAG	GTGCCTTACT	AAATATATAG
62701	AACATATACC	TATGTAAGTT	AATGAAAACA	AAGACGTGAA	GGCCTTTTCT
62751	AATCAAACAG	ATTTTACATG	GAAATCAAAG	TTTTCTCAGC	TGTGTTGCAG
62801	AAAAAAAATA	CCCCCTGTT	CTGTTACTCC	TATAAAAACG	TGTGAATACC
62851	ACAGATTATT	TTGGAAATCT	CTACTCTCAA	CTACCAAAAC	TGCCACAGCA
62901	TCTCGATACA	TTGATGTCTG	ATGTTTCAGC	AAGTTTGGAC	AGTATGACAC
62951	ATGCTCTTGA	ATGCAGATTT	TTGTCAATTCA	AAACACCATT	CCAAACAGGG
63001	ATGAGAGTGA	GCGGTCAGAA	GCAGGTGTCC	TTGCTCTGGA	GACAGTTCCC
63051	TGCCCACATG	TCCCCTCTTC	CCTTTCCTGT	CTTCTCTTAC	CTAACTGCTG
63101	TCATCTGGTG	AGATCTTTAC	TCATCTGATG	CAACCTAGAA	TGCAAAAAGGT

Fig. 1-24


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63151 ATGAACTAGG TAAATGTTTA AGACTGCAGT ATTAAGTAGG CATTTGAGAG
63201 AAATCTCTGT CCTTAAGGTG CTCTTTGGAA GATCAGCAAA CCTCTCACCG
63251 AGGTAATGCT TCAGATAATG CTACAGACTT TCCTGTTTGC GTCTTCTGTG
63301 TCAGAGCCTG AAACGTTATT GCAAATAGAT GTCTGGATAA GAACAGAACT
63351 GTTAAAATCA CCTTGCCATG CCATATAAGT TCCAATATTT TGCCATTTTT
63401 TTTCTGCGC AGGGAACATG TTGAAGAAAG TTTTGTAGTT CTGTTGGAAG
63451 TCTTTCCCTT TTGAAGTCCC TTGCAGTATT CATCTTTTCC TTTTCCTTCT
63501 GTCTCTTTCA ATAGACAGAG CTGCTGAGCA CCAATTTATC AGATTGTCTT
63551 TCCCCTTCTT TAGGGACATG TGATTCTGGG GATAGAAGAC AGTCAAAGTC
63601 ACTGTGCCAA AGGAGTTACC GTCTTCCATA TTTGTGCTGC TCTTAAAGTC
63651 GATGCGATAT TGACTGAAAT TCTGTGGTTT CCCTTTGTTG TCTTTAATCT
63701 ACACCAATGG AGTTACACCG AAGTGCAGTT TTAGATCTAT GAAAGCAGTC
63751 TGGAAGATCG AATATTCCGT GTCATTCCCA GAACGTGGTC CAGAACATCT
63801 GTCGCTTGGC ACCACCTTTT CCATTCCCTGA CTGCATAGAT CAGCTAACAG
63851 CCCTACGGCA ATTGCAGTTA CTCTGAACTG CTAGGAAAAT ATTTGCAGTC
63901 ATCATTGTAA GTGATGAGTG GGCACATAGC AGTATTTATG TAGGAGGCTA
63951 AGTACTTAGA GTTTCTAGGA TGATCTCAAC CTACAGGACC GGACAGCTTT
64001 CTGGAGAGTT CTAGCAAGGG TAAGGAGAAC AGGGAATCAC CTCTTAGAGA
64051 GAGGACATGC CACAGCTAAA GCTTTAATGA ACAATTAGAT GTGAAGCAAG
64101 AGACAGGAAA GATGATTGTG AGACTTTTAA AAGCCTATCA AAGCACTAGG
64151 AGAGCCCAA GCATAGGCAA AGTACCTTAT AAGTTGGCAC ATCTGAAGAG
64201 TATCAATTAA AAACATATTA AATCCATATG TTATCCGATG TGATTCAATA
64251 TGTGTGGGTC ACCCTGACCA ACCCAGATTT CTCCACGTAT GTCTGGTAAT
64301 ACTGGCTCTA CGTAGCACGC AGAACTGCCA GCTGTCACCT GAAGGTAAGG
64351 GCTTCTACTG AGCCACTCGC ATTACCTTGG TTGGGCATGG ATGAGAGACT
64401 CCTCAAAGC TGCTGGTGGT GTCTGAGACT GGGCAGGATT GGTCAGGCCT
64451 TTCTCGCCTC CCAGCGTAGG TTCAAGCTGC CCAGTCCCCA AACTGGGTGTC
64501 CAGCCTCCTT CAGCAAGGAA ATCAGTGACC TGCCAGCCTC ACTGCAACAG
64551 GAGCTCACTC TGTGGGTCAT CTCTATCCTT TTCTGTTTCA GGATGACGAT

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U gene exon 1

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64601 GGATGCTCTG CAACTAGCAA ACACTGCCTT TGCTGTTGAT ATGTTCAAAA
64651 AGCTATGCGA GAAGGACAGA ACAGCCAATA TTGTGTTTGC CCCACTGTGT
64701 ACCTCCACAT CTTTGGCTCT GGCATATAAA GCTACAAAGG GTGACACTGC
64751 AGACCAAATG AAAAAGGTGA GCTGTCGGCA TCCTGCTGTG TAGCTGCAAA
64801 ATGTGCAGAG GTGGCTTTCC TATTTATTCC TCTTAATGCT GTATAGGACT
64851 GCTGGTTCCC TTGTAAGCCA GGCAGAAAAC TGTCCATCCA AAATTCCAGA
64901 ATATTTCCCC ACTCCATGGC TCCACACAAC CAAAGAGGCT GAAAATCACT
64951 AGCATAGGGA AAAAAGCTTT CTCAAGCATT TACAAGGTGG ATGGGGACAT
65001 GGCAGAGTCC TCAGCAGTTG TATTAAGGCC TTGTCTCCTT TCAGCAGGAA
65051 TGCTGATTGT GGCTGAAGGT GACTGCTGAA GTCAGTGCAT TTTCTGGATA
65101 ATTGTTTAGT GATTATTCAG GACTGCCTAA GCTTAACAGG ACTGGAATAA
65151 ATTTTGCCAT TACCAAGTAA TTTTAGCAGT TCTGTCTGTG CCATTTCCCC
65201 TTTCTCCTGC CATAAGCTA AGAGGAAGAT AATGCAGTAG GAGGCAGCTC
65251 AGCTTGAGTA GTAGTTTGCC TTGCAAATAG CTCTAGATGC TCAAGGGTTT
65301 TACAGACCA CGAAGCAGCA TCATGGTGAT GGTGCAATGA GTTTATCAAG
65351 GTTGCTCTGT GCGGTGAGA GGCTGCACGA CTGCCCTCTG GAGAGCCAGG
65401 ATTTACACAG CCTCTTTTTA TTCCAGTGCC CACAGTCTCA GCAGTTACCT
65451 AGAGGTGAAT GAGAAGCAA TTCAGCATGC ATTTATATGC TGATTATCAC
65501 CTGGCTCTCA GGGGCATTCC ATGTATTTGA ATACATTTTT CTTCGTTTAG
65551 CAGTTCTCTC TTGTACCTTT GGTTCCTCTG ACGGCACATT GCTGGAGCAC
65601 AGCCTCTGGC GCCTCTGCTC ATCCTACAGA TTGCAATGAG TCTATTTGCA
65651 CAGAAACAAA GTGGTATATC CACAAAGGCC TGCTGGGTGT TTTCCCAAAT
65701 AGGATTATTT TAAAAAATA AAAATAAAAA TGATTTTTAG ATCTTATTTT
65751 TAGTTTAAAT GACACCCCAA AGCTTCCTTG TCATTTCAAA GTTCAAGCAC

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Fig. 1-25

65801 TGTCTTTGCA ATGGAAGAGC TTAACACATT AACCTGTGCT TAATTTCACT
 65851 TTCACTTGTG CCTGCAATTT GCATTGAACC GTCCCACAAT AAGTGAACAT
 65901 CCACATCCAC AAATAGGGTT CTGTTACACA AGTGCACTTA TGTTTCACAT
 65951 TTCTCAAGGT AATTTACTGT GCCTGTAAAG ACATGGTGTG TTCAGGGAGA
 66001 AAGAGCAGGA GTGAGGCTGA AAGGGAAAAG GAGGTCACTG ATGCTGGTTG
 66051 GGAAAGATGA GAAGGGTTGG GCAGGCTGTT TTTAATGGAA CATGCACTCT
 66101 CAGAGACCTT GCAACAGGCA GGCACCTAAA AGCAGAGAGG TTTAGGTCAT
 66151 GCTAGAATAT CCTGGAACTG GGCATGTGAT TTCCCGGAGC TGGGAGGTGG
 66201 GTCAGCAGCC TTACCTCTAA CTTACGTTCT GTCTGCCAAA GCTCACCTGC
 66251 TTATCTGACT GATTTCTACT GAAATACCAC ATGACATCAT GTGTCAATAA
 66301 TCAGAAAACC TTGCCATATG GTAAGCAGTT TTTAAGAAG TAACCCACTT
 66351 CCAGAAAGGA AACTAACTGG AACATTTATT TATCTGGCCT CTAACTCCA
 66401 GATTTTTTGA CAAGAATGTG AGTTTGATAA AAGCATGACT CCACGCTGCA
 66451 GATATGTAGT TCACTAAATC ACTTTGCTAG TATGAACAGC TCTATGGAAT
 66501 TCTTTGGACT GCTCACAGGA AGGAAACACA TTTGGTTAAA GTTTTGATAG
 66551 GATCAAGTTT TTAGATTTAT GTGGGGATGT CAAATAAATT AATTTTTTTT
 66601 TTAGTAATAA ATAAGAGTGA GAAGTCGTGT TGTTAGCTTG AACACAAAAA
 66651 AGTCAAAGCT CTGGTCACAA ACAAGCATT TTTATTGCCA AGCTGTCAGG
 66701 CCTGGAGCAT GTCCAGAGAA GGACAACAAA GCTGTGAAGG GTCTGGAACA
 66751 CAGATCTTAC AGGAGAGCAG CTGAGGAAAC TGGGATTGTT CAGTTTGGAG
 66801 AAGGAGAGGC TCAGGGGAGA CCTTATCCCT CTCTACAAC GCATGAGAGG
 66851 AGGCTGTGGT GAGCTTGGGG CTGACCTCTT CTCCAGGTA GCATTAATAG

CR1-L

66901 AATGAGAGGC CGTGTCTCTCA AGTTGCACCA GAGGAGGTTT AGGTTGGATA
 66951 TGAGGAAATT TTTCTTTTTC TGAAAGAGCA GTGAGATATT GGAACAGGCT
 67001 ACCCAGGGAG CTGTTCAAGA ACTGTGTACA TGTGGCACTG TGGGATATGG
 67051 TTTAGCGGGC ACAGTGGTGG TGGGTTGACA GTTGGACTAG ATCATCCAG
 67101 AGGTCATTTT CAACCTTAAT GATACTATGA TGCTATGAGT TTTTAGATAA
 67151 TAAAAAGAAA GGTGCTCAGT ATTTTATCTT GTTCATTATC AGGTGCTCCA

U gene exon 2

67201 TTTACAAGAC GTCAAAGATG TTTCTTTTGG GTTTCAAACG GTAAGTCGAC
 67251 ATGTTTCCAA ACTCACCTCT TTCTTTGCAC TGAAAATGGT CAAGCGGGCTC
 67301 TTTGTAGACA AGTCGCTCAG CCCTACCACA GTAAGTACTG CAGAAAAGTG
 67351 CTTGAATTGC TCGACCAACC AGACTTCAAT GTTATTCAA ATACGTTCTC
 67401 TCACTATTAG CTTTTACTTG ACTAGACTCA GATGATGAAC AGCATAATAA
 67451 GAGTTTGTAG GAGGATGATT GTTCTGCTTG ACCCCAAGCA ATGCAGCCAC
 67501 TGCTAGAGTT GCAATTCTTT CATTAATATG TTTTAGGTCA GTAGGCGCAG
 67551 TAGGTTTGA ATGCAATATG ACTTCTATGC CACATCAAGG GCTTTGCAAT
 67601 ATAAGTATGA CTGGGAAGGA TTTTAAATAA AGATGGTGGT GCAAGTGTGT
 67651 CTAGTCCACA CACCAAGTA ATTACTGCAT AAAGAGTAGT TTTCTTAATC
 67701 TAACTGAGGA GGCACAAGCC TGGTTATTCA AACAACACAA GTGAGGAAAG
 67751 TGTTGTTTGG CCATGAACT TAAGGACCTT GCAAACAAC GAGAAAAATG
 67801 TTGTGTTTGT TTTATCAGAG TTGCCTTTGA ATAGGGCCCC AAGCAAGGGC
 67851 AACTTCAGCC TAGAAGTGAT GTTTCAGAAG ACTCACAGCC TGCTTGAATG
 67901 GTGTTATAAT CAGGTTGCCT GCTTTTGGC CCCATCCACA GCAGTGAGCA
 67951 TCTCACCTGA CAAGGATAGG CACACTGTGA GCAGCCTGTG GCCTTTGTCT
 68001 CATCCCTTTC TTTTGCCCAG GTGTAGACTG AAGGCTACTT TATCCTTTCA
 68051 AACTCAGGCA ACATGTTTAC TCCTGCAGTA CGAAAGGTAC TTTAGCAGCC
 68101 AGTATAACTG TATTGAAGAC AGTCTTGGGA GCAATCTGCT GAATGCGGCT
 68151 GCGTGTCTG GCTGTACCT GCTGTTACTT ATTAGCTGTC CTTTGTAAATA
 68201 TACTCTCTGC CTACACCGTA ATGAAGCTTG GGATACTGGT TTTGTAGGCC
 68251 GTGTGGAGAG TCATCTAGTG AAGAACATCT AAGGAAGGTT AGCTTTGGTA

U gene exon 3

68301 CCTTGTGTCT TTCAGGACTT TGTTAACTCC ACAAAGAGGC CTTTTCCATC

Fig. 1-26

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68351 AGAGCTGGAA CTAGTGGAGT TCAAGGAAAA AACTGAGGAA ACACGGCAGA
68401 AGATCAACAA ATCTCTCTCA GAGCTAACTG ATGGTGAGTA GGGCCTAACC
68451 TCGGGGATGC TGATTACCTC TTTGAAGAAT GATGTCTTTG TCTTCATGAC
68501 ATCTCCTAAC TATTGCTTTT AGAAGTAAAT ATACAGTGAA AGCAAAGGGA
68551 CTGCACCTAT TATTTGGATT CATGAGGATT AGCTGTGTTA GCATGTTTTA
68601 AAATCATTTA CTTTACTACT TTGGCATTTC TGGAGGCAGA CCTTACATTA
68651 GCCTTTGGCA AAGCATCTCA TTTGTTTTCA TTGGGAAAGT TTGGCTCCTG
68701 GCTGCAGAGC TTCACAAACA TCTGACATCA ATACATCAAA TCCTGGCCCC
68751 GTTCTCTAAT GGAGAGTATG TGCTGAACTC TGAATTTTCA GCTGTTAATT
68801 AGTAGCTCAT CTCAGCAGCA CAGCTGATTT TGACCACAGG TGGACATGTG
68851 TTTCTTACTT GGAAACACTC CCGTGGCAAT AGTTCTGCAG CACTTTTCTT
68901 GCAGTACCAC TGAGCCACTA AGTCACAAGA AGTGCCTCTC AGTGACCATC
68951 AAGGCTCCCA GGCAGAACCT GCCAGTCTG TGCAGGGTAG AGGTCTGGTA
69001 CGCAGTGCCC AAGGCAGAGC TCATGTACAT GCTGTCCATA GGTAGCTCCA
69051 GGGTTGGTTG CTGCCTATTG CCTCATGTG GTACACATAT GAAAATATGG
69101 GTGCCTGAGT TACATCTGCT CCATCCCGAG GTGACACAGG TGCCACAGG
69151 GAAGTACTTT GCGCTGCCTG TGTGATTTGT GCATGAATGA AGACTAACAT
69201 CCACAACACT GTGGATTCAG TGCCTCATGA CAGTGTTTGA ACAGACACAA
69251 AATAAAGCAA GGGAAAGAAT TACGTTCTCT TTTTGAAATC CATGGCACTA
69301 TTTGGTTATG AACTGTAATT AGATGGTTAG CGGCATTTCT TATTCGGGTT
69351 TATTCTTATG TATCACTCCA AAAGTGAGTA GAAGCTAAAC TGGAACCTCC
69401 CTTGAAGTCT CGCTCTCCAA ATGAGAAATA TTTTTTTCAG TTCTACCTGC
69451 TGAATTTTCG TGAAGTTTCA GTACCTTCTT TAAAGTACTA AAGAAAAGCA
69501 GTAGACATAT TTTTTATTCT GTTTTATGTA AACCAGGTAA AAATGTCACT
69551 TGGAAGATCT GTCTTGATCC CAAATTCCAT TTTAAACATG GAGCTGCAGC
69601 TAAGGAACTA AATGCTTCTA TTTGGGGATT TCCCTTTATA ATTAATACTG
69651 CTATCTGTGA GGTGCAGGGC AGAAATATTT TAATTCAGTA CAGTGTTCCT
69701 ATGTTCTGTG AAAACAGCAC ATATGTTGAT AATTTACTGT ATTAATGACC

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U gene exon 4

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69751 AGCTTAACCA TCTTCACAGG CAAAATGGAG AATATTCTGA ATGAGGACAG
69801 TGTAAGTGAC CAGACTCAGA TCCTCCTAGT TAATGCAGCT TATTTTGTCA
69851 CAAACTGGAT GAAGAAGTTC CCAGAAGCAG AGATCAAGGA ATGTCCTTTT
69901 AAAGTCAACA AGGTACGTCC TGAAATAAAA TAGAGTACAC CTTCTACTCA
69951 GATGAATGTT TGCCAATTTT GTGCTAAGGA AATTTTCAGT AGAGCAAGTG
70001 AAAAATATTT GTTACTACTA TGGCATTCTT AGACTCTCTG TCAAAACCTA
70051 TGTGCTGTTG CAAAAGTACC TAAGCCAGTT TTCTTGTTAC GTTGCTAGTT
70101 TGAAGCTGTT GGTGAAACAA GCACTAAAGG TCACCGATAG TAGGTAATTC
70151 TTTCCTTTAA AGCACATCCC CAGTATATTG TATTAAGTAC ACCTTGTCAC
70201 ATGAAAACCTG CTCCCCTTAA AGTACCAACA GCTTTCCTA GCAGTCTTAC
70251 AGCTGATATC GTTACTTACA GAAGCCAACA AATTCCATGA TGGTAATCAA
70301 TGTACCACTT TCATGCAAGC TTGCAAAGTT TCCTCTCTCA TCTTCTCTGT
70351 GAATTAAAG GAGTGCTAGA TTGTCTCTC TTGTGTTTTG CAGACTGAAA

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U gene exon 5

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70401 CTAAGCCAGT GCAAATGATG AATCTGGAAG CTACTTTTTG CCTGGGTTAT
70451 GTGAAAGAGT TGAATGTTGC AATCCTTGAA CTTCCATGCC TTAACAAACA
70501 TATAAGCATG CTCATTCTGC TTCCCAAAGA CATTGAAGAT GAAACGACTG
70551 GCCTGGAAAA GGTGAGAGAA AAAAACAGTA CTGAGATGAT GCTTTCCATG
70601 CACAGCTGTG TCGGTTAGCT GTGGGTAGCT TGGGTAGGGA CTGTCTTCCT
70651 TGAATTCCTT CATTGGGTTG TTGAGCTGAT TACATAGCAA ACGCTTGTA
70701 AGAACCAGTA ATCAGAGTAT GCACATTTAG TGGAGTTTCT CTGGAAGTCT
70751 ACTCTATAGG TTAAATAATC ATTATATCAA TATAACTGAG AGTGTAAGTT
70801 AACTCTGAAT GCTACAAGCA AAAGTTGTCT TTTGGACTTT GTTTTTTTGG
70851 GGTTTGATAG GACTGATGAG TTCAGAAATG GTCTTTTTGT TCCCACTTTC
70901 TCTGGACTGC ACATTAATTT CCTTTGTTCT TTATGTCCTC AGCTGGAAAA

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Fig. 1-27

U gene exon 6

70951	GGCACTCACC	CCTGAGACAT	TATTACAGTG	GACCAATCCC	AGCATGATGG
71001	CCAACACCAA	AGTGAATGTG	TTTCTTCCAA	AGTTTAGTGT	GGAAGGCGAT
71051	TATGACCTGA	AGCCACTCCT	GGAAAGCCTC	GGCATGACAA	ATGTCTTTAA
71101	TGAGAGTGCA	TCAGATTCT	CTGAGATGTG	TGAAACCAAA	GGTGTGGTTT
71151	TGTCAAAGAT	CATTCAATAA	GTCTCCTTGG	AAGTAAATGA	ACAGGGTGGA
71201	GAGTCTCTAG	AGGTACCAGG	ATATCGGATT	CTGCAACACA	AAGATGAATT
71251	TAAAGCTGAC	CATCCGTTTA	TCTTTTTGTT	TAGGCACAAC	AAAACCTCGCA
71301	ATGTGATTCT	TTCAGGCAGA	TCTGTTCCTC	CATAAGCAGA	GAATATTAAT
71351	TATGAAAAAG	ACCATAAATT	TATGGTGATG	CATGTTCTCTG	TAAAGCTTGG
71401	TGTCCTGACT	ATCACCTTTG	AAAGGAATTC	TAAGAGGTTC	ATATATCAAC
71451	AGGGTAATAC	AATGTACTCT	ACATATGCAG	CAGAACTAGT	TTATTTCTCTT
71501	TTATTTAATC	CCCTTAAGCT	GAAGGATTCC	CACTGTGCAG	AACACATGAT
71551	ATTTGACTAA	GAAGTATTCC	ATCCTCATCC	ACGAGAATAT	TTTGTTCCTC
71601	TGTGACATCT	TTTTCCAAAA	CAAAATGAAC	AGAGAACCTG	TTTTTGAAAG
71651	ACTAGGAGCT	GGAAGAGGCT	CTGGGGGAAA	GAGCTGCATT	CCTGTTTCAT
71701	ATCCAAAAACA	CCTTCCCTTG	AGACTCATAC	TCAGTGCCTA	AAGGGGGAAA
71751	ATGTGGACAT	GTGGTGTGAT	AGCCCTCCTC	TTGTACTTGG	CTGTAGTCTG
71801	GTGATCCAGG	GTGCCCTGCT	GGACCCTGCT	AATGCACGGT	GAAATAGTGC
71851	AGCTGAACAA	CTCAGAGTTT	GCATCTGTGA	AACAGCAGCT	GCAATATGGA
71901	TGCAAGAGGC	AATAATAAAA	CACCCAGAAG	ACTCTTCAGT	GTGTGCTACC
71951	TCAGTTTGTA	GGTTGGGGAG	GTTGCACTCT	ACTGTGTGGG	ATTTTTTCAC
72001	TCATTCTCCT	TCAGACATGG	CAGAGGTGAC	CAGTTCCTG	CAGCTGAGAG
72051	GAAGTCTGTT	GTATATATCC	TGAGAAAAAG	AAGGCTGTGC	AGTTCTAGGA
72101	TAGAAATCAC	TTGGATTAAT	ATTGAAAATG	CCACACTCTT	CAGATACAGA
72151	TTTTCTGTCA	CTTCTGGATT	CAGCATTAAG	GAGGCTCCAC	ACGTCTACCT
72201	AACCTCTGGG	ATTCAAGAAA	GAAATAAAGG	CTTTGACTTG	AGTGAGATTA
72251	ACACTGTAAT	TAGAAGTCTC	CAAAATCCAT	ATGAAATTAT	GGTAATTAGT
72301	TTTCCTTTCT	ATCTAAAGAC	TGCCTGCTGC	ATATGTTTCTG	TACTGATTTA
72351	CCTAATTACT	GTTCAGAATA	AAGCACTACA	AAACCTGTGT	CAAATGTCTG
72401	TAGCACATCC	AGTGTGAGTC	TGTTCTCCTT	CACTCAGCTT	CCAAGAGGGG
72451	ATAGGAACAG	AAATTGGTAG	ATTCAATTCAG	GACACAGTTA	AAATAAATAT
72501	ATGAAGAAAT	TAAATCTGTG	ACTGAATTGC	CCTTTTGGAC	CACACGATAA
72551	TAGCTGACAA	TTAAGGAGTA	TAGTACTATT	TGGTCAATAT	ATAGAGTGAG
72601	TTCAATTATA	TATCTTCAAA	GAAGGGGCCA	TTTTAACTGA	GTATTCCCCCT
72651	TGGTTCTTCA	GATCTGAAAG	AACCTAGAGA	TTTCTAAATG	GGAACATACA
72701	ACCCTTAATA	CATATTCCTT	TCTTCTCATA	GCAGAGAACA	GCACAGTGGC
72751	TATTATGGAT	TTGGAGAGAG	TTCTGTTTGT	ATTCTTGGCG	TTCCCCAACCC
72801	ACATGTAGCC	TTCAGTCACA	AACGTTTCAGG	GTTTCACCAG	TTGTCTTCCC
72851	TCTGTGAGTC	TCTAATGCTC	TCTGACTTAT	CTTAATATCA	GACAGTTAGT
72901	GGATACATTG	GTTCACATCT	TTGAAGGCAC	TGAGGGGACT	AACTCACCAA
72951	AACCAACAAG	AGATGAGTCC	CTGCAGGCAT	CTGGGGGTCT	CTGCTGCTCT
73001	TCATCAGGCA	CTCTGATACA	TAGATAGAAG	AATGCTATGT	GTAAGACTTA
73051	ATTTTCATACT	GTCTGAGAGG	AGACAGCCTG	CAAAGACCTT	TACTAGCTCA
73101	ATAGCTTCAG	TGATAAATGA	GTGTCTGGAA	AATGTTTTAA	TGTGTCCCAT
73151	CATTGTCTGA	TCTGTTTTGG	AGGCTGCGGT	TGGAGTTATT	CAGAGCTGTC
73201	ATCACTGCGG	TGTCCCCTGG	TTCTCCCATT	GGTCTGGGCA	TTGCACGTGG
73251	GGTTGGCAGC	CGATGAGCAG	CTGGGCAGTC	TGTACATAGG	CAAGGTGGAC
73301	TGGTTGCCA	CAGTCTGTGC	AGTTTCTCTG	TGTTTCAGCA	CTGACTCGTG
73351	GTCTAGTAAT	TGCAGGTATC	CAGCAAGCCA	AATCACACTT	CATTGCTACT
73401	GCTGTGCTGG	TCTGCTAGAC	TGATGAAAAT	CTCTGTTAGA	CTGCCTCATC
73451	TCTCTTTTTT	TGCCTGGATA	AGACTTATTA	AAGGAGAAAA	GCTGATATAT
73501	CACTCTCAGA	TTTTCTAGAT	CACGAAAACA	TTGCAGTGCA	GGAGCCATTCT
73551	AATCCAGCTC	ATACTCCATT	TAAATGCTGA	TCAGAACACT	TAGTGCATCC

Fig. 1-28

73601	ACGTACGTTT	CCAGAGAGCT	CCTTGTGGT	GCCTTTGCCA	AGGAGGGCTA
73651	TCCCATGAAA	GCACACAGGA	ATGCTGCCTC	CGGCAGAGAC	CTGTCTGTCT
73701	CCACCTTCTG	ATTAACACAA	AGGTACCCAA	GACTATGCAA	GGCAAGCTGA
73751	TATTTTCAGAT	AAGAAGTTGC	CTCAGTTTAC	AGAAGGCCAT	GAAAAGCTCT
73801	GGTTCATTTT	CCATATCTGC	TTCTTCTCTC	TGCTTTTGGG	AAATAATTCT
73851	TATTTTCCTAC	TAGCAAGTCC	AGACTAGTGT	AATATTTAGT	CTTGATTTGT
73901	TAAATCATCG	TGAATTTTAG	CTTTTACTAA	TGGTATCTTA	GATGATCTAA
73951	TATACTAACA	CCTAGTAAGT	GACTTCAGAT	AAGGTGTTAG	GCTTATACCA
74001	CAGCCCAGTT	TGAAGGAGCT	AAGTGCAGAT	GGCAACCAAA	CAAGCAACAA
74051	CACAAATAGG	CCCAAATAGC	CCATGGAGGG	CCAGAAAGTA	CAGCTGCAGG
74101	CAGAGCTGTG	ATGTAATCCA	TTTTTGTGAG	CCCCTTGAAG	CCAGCAGGCC
74151	AGCCTCGTGC	TTTTAGTGTA	ATGGACATCA	TACAGCCAAA	AAGGAAGGTT
74201	ATGCCATAAT	CCTTGCTCCA	TTTCTAGCAAT	GGACTCGAGT	GTAAGTACCC
74251	TGTTTCCTAG	ACCCTTCCAG	TCCTATGGAA	ATTTAGAAGT	CCCAATGTAA
74301	AACCTATTCA	ACTTGACAGCA	TGTGAGAGGA	AGATATCAGA	ACAGCTCCCC
74351	CTAACGTGAG	AAATGCCATT	ACAGGGTACT	GTACTGTTCC	ACCCATTCTG
74401	GCCTCTGGGC	TGTGGGCAAG	AAACTGCATG	GGAGGACATG	GGAAAACCTG
74451	TGTGGGAGCT	TGCATATAGA	AATGTATTTG	TACTCAAAGG	CGTTGGCTGT
74501	GACGGAGAAA	GTGAGCATAG	GTGAGGACTT	GCTCAGATCA	CCAAGCAACC
74551	CCACCTCACC	TTTCAACACA	GCATTACTAT	CCAATGATGG	GTAAGTGGCC
74601	TGATGGAAAA	AAGCAAGCCA	TGGCTGGCTT	TTGCAGGCAG	TTGCAAACTG
74651	CAGTGTTATG	CAGTCTAGCC	ATCTCATAAC	TTGCTTAGCT	GCATAGTCAT
74701	TGCCCCACTT	CTGCTCCCAG	CATTTTGTAG	AAGAGAACTG	GTACATCTAA
74751	ATGCTTTGCA	GTAGCAGGAA	TTGGTTTTGG	AGATGAGCAG	CTGGTTTTGA
74801	AACTTGAAAA	ATGCCACATA	CAGGCAATTG	GCCTGGCTGG	AAAAGCAGTG

CR1-GG

74851	CGGTTTTGAG	CCTTAGGTAT	GTTACATGTG	CAAGTGTTAG	GTCCTACACC
74901	TGGGGAGGAA	TGACTGCAGG	TACCAGTACA	GGTTAGGGGC	TGAGCTGCTG
74951	GTGAGGAGCT	CTGTGGAAAA	GAACCTCGGT	GTTCTGGCGG	GCAACAGGTT
75001	GGCCATGAGC	CAGCAGTGTA	CCTTTGTGGC	CCAGAAGGCC	AATGGTATCC
75051	TGGGGTGCAT	TAAGAAGAAT	GTGGTCAGCA	GGTTGAGGAA	GGTGATCCTC
75101	CCTCTCTGTT	CTGGTGAAGC	CACATCTGGA	GTACTGTGTC	CATTTCTGGG
75151	CTCCTCAGTT	CAAAAAAGTC	AGGGAGCTAC	TGGAGAGAGA	GTCCAGCAGA
75201	GGGCCACAAA	GATGCCTGGG	GTCCTGTAGC	ATCTCCCTTG	TGAGAAAAAG
75251	CTGAGAAACC	TTGGGTTTTT	CAGACTGGAG	AAGATAAGGC	TGAAGGGGGA
75301	TCATATCAGT	GATTACAAAT	ACTTAAAGGG	CAGAAGCCAA	GTGAATAGGG
75351	CCAGGCTCCT	TTTGGTATCC	TGTGACAGGA	AATGGGCGAA	AATTCAACAC

CR1-b

75401	CAACAAGAGG	AAGTACTTCT	CTACTTTGAG	GGTAACAGAG	GACTGGAACA
75451	GGCTGCCCCG	AGAGGTTGTG	GAGTCTCCTT	CTCTGGAAAT	ATTCAAAACC
75501	TGCCTGGATG	CTTTCCTGTG	CAACCTACTC	TAGGGAGCTT	CTGTAGGAGT
75551	GAGTTGAACT	CAGTAATCTC	CAGAGGTCCC	TTCCAACCTC	TACAATTCTA
75601	TGATTCCATC	CTAACGGCCT	TAGAAGGGTC	AGAATTTGCA	CATACGGTAT
75651	AATGTTCTGA	GGCAAAGCAG	TGAAACAGAT	TGCAAAGAAG	CTCTAAGGAG
75701	ATATAGAGAG	CAAATCAAAG	AAATGAGTGG	AGGAACGACG	TCAGTGTAAG
75751	AGGGAGGGAG	AAAGCACAGA	GTTTGGAAGA	ACGAAAGCAG	TGAAAGGTAT
75801	TCAAAAATGG	CACTGAAAAG	TGGCTAGGAC	TCACAAAAGC	AGCAGAAGAA
75851	AAAATGGAGA	ATGGAATGGG	AAAGGCAATA	GGCAGAAAGA	AAGAAAAAGA
75901	TAAAGAGGCA	GGAACAAATG	ACTAAGAAGT	CTGAAGAAAT	ATGCAGAAAG
75951	GAAAAGCAAA	CAACAAAGCG	AATCCAAATG	GAACAGAAAA	AAAGTGAAAA
76001	GAAGGAAAAAT	ATTACTGAGG	AGATCTGATA	CTGTGTGCAG	ATTTGTGCTT
76051	CCCATCTCTT	TCTTTGCATC	TACTGTCATG	TTGGGGACAT	AACCCCATGT
76101	GATCAGCCTC	TCTTGACTC	CTATTCTTAG	CTCCAGTGAT	TTAAAAGAAT
76151	ACCCCTGGG	TGGGGATTCC	TGTTACAGAT	CAAGGAAATA	CTTCTTCCTC

Fig. 1-29

76201 TCTCTAATTA AAATCCTTCC ACTCACAGAA AGCTGGCTCT GTACCTGAAT
MAR (0.81)

76251 GCGTGCCTAC TACCTGTAGG CAACATAAAG CTCATGCATT TCCTATTTCAT

76301 TTGCTCTATT TCTGCAAGCA AGCTCAGCCC CAAACAAGGG ATCTCTAAAT

76351 CCTAGCAAGA ACCCTGCACA CCCCAAGTGT CAAGTCCTGA CACCACCAAA

76401 TTCAAAAGGA ACTACACACA GCACCACAGC CATGGATCTC CAGTGTTAAT

76451 GCTGTTCTCC AGCTAAGGGC GACTTGGCTT TGCAGTCAGG AGATGTTGCC

76501 AGGATGCCTC CTGTCAAACCT AGTTGGGCAG CTTTGAGCGA AATGCTGTTA

76551 GCACATTGCT AGATATAGGT TTCCTGGTCT TCTGCAGGAA ACTGAAGGAT

76601 GACATTTGCA TGAAATTACA ACGTGCAGCC TTTATCAACA ATTGGCTAGA

76651 GACTGAATTT TCCCACAAGA AAGTGGAAGA AATTTAAAAT AGAGTATACA

76701 CAGGAAGGTG CTCCAGAGCT CAGCTGTTGT GTTCTTCATT TGACCTCCTT

76751 GCTCAAGAAG GTAAACATTA TTTTCTCTT CAAAAATAAC TTGTCTTGTT

76801 GTTGTTGTTG TTTTGGCCAA ATCAGTCTAA AAGTTGGTAA ATTTTCATGTT

76851 TATAGATGGG GCAAAGGGGG AAGTACTTTC ACAGGCTGGA GAGAGCAAAA

76901 GACACTGCTA AAATTTGGGT GGTCTTCACG AAGGGAGGTG GTCTTCTCTG

76951 GGGTGAGGCT GGGAATTTAG GAACACATGC CCAAAGCTAT GAATCTAAAG

77001 ATGCCTGTCT AAATTCCTCA GACTTTTGAC TGAAATTTCC CTCGGTTCTC

77051 CCTGCCTGCT TGGAGAGCTA TAACTGCCAC AGACTGAGTG GTTTATACCA

77101 CATGCAGATG CTTTGCTGCC TACATCTCCA GAAGGGTCAA AGGGCTGTTT

77151 TAGAACAGCC CAACTCACTC TAAAAAAATG GGCTTTATGA GAAGCGATGG

77201 TGCAGATCAT CTGGATAAAC TCACCCATAA ATTAATAGAA ACAGGTAAAT

77251 TTTCTTCTT TACTCAGGTT TCCACAGCAC AAGGAAAAGC CTTGAAATGT

77301 TCACTAGACA AGAGAGGGCA CGCAACTCTT TGGTTGCGTG CTTGGGTGTT

77351 TCCTCTGTAC CCTGGTCTCT GCTGCTAGGA TTGTTTATGT TCTTAAACAA

77401 TGGCTGTATA TAATAGGAAG GGTGGAGTAT TCTTCAGATT TTGTTTTGGT

77451 AATGGGGATG CTTCACTATC AACATATTTG CTCCTGGCTT TGGCAGCGGT

77501 GTTCAAAAAT TTGCTGAGAA GTTTATGTAA CTACACATTG GCATAACAAA

77551 TAGCTTGCCA CTGTATGGCC AATGTACATC CATTCCTGTT CAAGCAGGAA

77601 TAATCAGCCT AGAAAGAAGC AGGAAAGATA CATCCTGGAG GTACCGATGC

77651 AAAATAATAG AACCAGTCAG GAAAAGCCCT TTCCTGTATA AAAACAGCAT

77701 CATGAGGGGC TAAGTTGCTT GGGAGATGGA CTTGGCAACA CTTCTCCTGA

77751 AAAGATATTT TGTGCTGAAA TGTATTGGGT TTTAATTTAA AGCACATTGC

77801 TTTGGAAATG CTTTGTGTTG CATGGGGAAG ACTCGAATTT CTGCGTTAAA

77851 GGAAATTTCA TTTTCTTAT GTGTTGTGTC CCTTTAAACC CAAAAAGCCA

77901 CAGAAACACT TTGAAAGTTT TTGTATGAAT GGTCAATGAA AATAACTTCT

77951 ACAACCATAG GCTTTTCATG TGAGGACACT GTATTATCTG TTGTGTTCTC

78001 CTTTCTTAGG ATAGACACGT ATCATTTCGG CCAATTCCTCT CTTCTTTGTC

78051 TTATGAGAAA TAAATGTATA TTAAAGCACT TAAATGAGAA GAAGAGTAAG

78101 TATGCAATTG GAATTATCAT GCAGCATCAG GGAAAACAGG TTTCTTCTTG

78151 CTTTCCCTTT CTACATATAG AACTGCCTTA CAAACCAGGC TACCACTCTT

78201 TCAGAATCTG CATTTTATTT ACTGCCTCCT CCTGTTGACT GCATAATGTA

78251 ACATACCACA TCTTTTAATT ATGATAGCTT TGAGCGCAGC TTTTCATTCT

78301 TCAGTAAGTT TTGCCTTGAT TTCATCTTTA GCCTAAAACA AGCTCTACAG

78351 AGAGAACAGA GCGTGAACAG CTATAGAAAA GGAGTATTTT TCACTTCACG

78401 GAGCCATGGA AGCAATTTGT TATCCTTACA AGACTTCTGG TATACAGTGG

78451 TATCTACGGA AGGAGGCTCT TTTCTGGGT AGATCCCTGC TCACATATAA

78501 CAACGCCAGC AATTCCACCT CCCAGACTGT TAACAGCTAC TGAGCCATCA

78551 TGCAAAGCAT CTCCCTTCAT CAGCCATAAA ACCACAGCCC TGCTTGCTGC

78601 CTCTGCACAA TTGCTAATGT TCTGTGCAAA CAGTTTGTCT GGTGCAGAAC

78651 AACAGCTGTG ATCTTTCTGG AACACTTCTT TTGATCTTGT ATTTTCTCTC

78701 CTTCCCACTC CAAGATCTTT TAAAAGAACC ATTTCCATTT GTTGCCCAAC

78751 ATCTAGGTGT TCTCAAAGTT ACTCTGCCCT CACGGTGGCT CCAAACCTCA

78801 CCAACAAATG ATTACAGAGA TCATAAGCAT GGCTTAATGA TGTGGAATCA

Fig. 1-30

78851 TACCTACACA TACTCCCTCT CCAAATATCC ATTAAGAAAG TTCACTAAAT
 78901 CCTTTGGTTC TCTAGTAAGA AAGTTCCTTC TCCAGCCCAC ATCCCTTCTC
 78951 CCTCCACTGT TGCATTGCTT TTCTGGGGCA GCCCTGTAAA TAGCTCACAT
 79001 GAAGCCATGG AATTGGTGGC AGTGGTTGTA CCTGGACGTC ACTCTGAAGA
 79051 CAGTCTGCTG CTTTTTCTAA AGGCATGGAC ACCTCTGTAC GCCAGACGCT
 79101 TGCCTTTAAG ACCTGTTTCC AGCTCTCATG CTCTCCCTCT GTGCTTGGTG
 79151 GTTGGTTCTT TCCCTGTGGG TTGGGGTGGA GGTGCCTCTC TTCTGTTGAG
 79201 GAAGTTCATT AGCTCCTGTT GTCTCCTCGA CGCCTTCTGA GGTCTAGACA
 79251 CACCTACAAC ATGCATCCTG ACCTACATTC ACAGTAAACA ACCTCTTAGA
 79301 TCCATTTTAG ATCTTTTACC AGCTGTGAAA GTGGAGCAAC ACAAACCTTTA
 79351 ACATGAAAGA AGTGCTGAGT TTTGTTTCA GAAGGTTGTG AATAATAGCT
 79401 AACGAGGGTG GAAGAAAAGA GAAATGATTA CTGCAATGTG TTTTCTTGT
 79451 GGTAGGATGA CTGCCCATT TATGTTAGGCC TTCATATGAA GTACTACTGG
 79501 ACTTCAGGGT GAAACAAGTG TCTTAGAATG AAACATATAT GAACTTTTTA
 79551 TTTCAAGTTA GGTAAGAGGA AATAAATGCC TGCACCTGCC ACATATCAGC
 79601 ACCTTCATAT GTTCAGCAAC TTGACTTTCC TGTCATCTA TCTTAGGCTA
 79651 AGCCTTTTTT CTGTGTGGCT GAGTTTCTTC CCATTGTCTG GGACTTGCTG
 79701 CAAGCTAAGC TGCTCGCACA GACAACCTGC TGCACCTCAG CAGAGCCATA
 79751 GCAACTTCTT ACACCCTGTT AACTTTGGTG CCTGAGCCCC CACTTGTCAT
 79801 ACAAAGATCC TGCCTGTCTC ACACCTGAAT GAGAGGCAGT GTGTGTTCCG
 79851 CATCCTTGCA GTCAGTGCAG GACGCTGAGT AGTTCTTGTC CCAGAGCAGG
 79901 CTGAAAGCTA GAGCCACCCT GACCTGAGTG CTTTCTCTCC ACCTGTGCT
 79951 ATATATTTTC CCCTAAATAA AATATCTTTC TGGAACACAG GCCACAGTTA
 80001 CTTATGTCTG CAAGCAGCCA AGAGCATATG CTTTGCTTTT CTTACATATT
 80051 TCTGGTGTGC TGTCCAGAAC ATCCTTTGTT TGACACTAAA ATTGATGTGT
 80101 GCTTTTTATG GTACAATATT TTGAGAAAAA CTTGAGTACT CCACTGCTAT

MAR

80151 CCACACAACA GCTTTACAGT TATTTCCCTA AAGGACTGAT AAGGGCTTCT
 80201 TAAAAGCCTT TTTTTTTTTT TTCAGATGGC ATTCTTCATG AAAAGACCAA
 80251 GCTGAAACTT AGTCCCAAAT TCTTCTTACC AGAGTGGATT TAATGGCCCA
 80301 TAGGAAAGGC ATCAGACTGC TGTATTTACA GTACAAGAGA AAAGAATGAG
 80351 ACAGATCTTG TCCTGCCATT GAACAGGAAG CTTACAGACT TTCTGGGGCT
 80401 GCTGAGCTAT TGCTTCGTTG TGAAATTGCC ATTCGTTATC CATTCTGAAT
 80451 CAGTGGTTCC TATCAAATCA ATGAGGAGAC ATGAAGTATA CTGCAAACAG
 80501 TGCATGTTTC CATAGGTAGT AGCATTCTA GCTGCTTACG TTCCTTCTTC
 80551 ATACATGAAA ATAATTACTA GTAATTTTAC TTTCATGAAT CTGTTGTTTG
 80601 AATCCTTCAC ACTGCAGCTC AGGTTACCAG ATGTGGTTAG ATGCCCCGTG
 80651 AGTTTCTGTC ACCCCAATCT GTCTCTAATC ATGTTGTTAC AAGAGGAAAG
 80701 AACTGATGCG ATGACACACA TTAAACTAGT TTGTAGAAGG AAATCCACGG
 80751 CTGACTGATT TAAATACCAC AACCTTTTGC TTACAAATAA GAACAAGACA
 80801 GACAGACCAC GGGAAACTCT TTTGGAAGGG ATCAGATACA TTGTGGGATA
 80851 AGATGGAAAA ACAATTCTCT CTAAGGAATT CTCATATGGT ATGAGTATTG
 80901 GGGCCCCCTT CCAGATCCTG CTGTATTAC ATGAGTGTGA ATTAATAGAT
 80951 GTGTGCAAAA TCAGCTATTT CAAACTCAGA ATTCAGCACA CTTCTACTAT
 81001 TTAGCAACCG ACTATGGGAT GATTTTAGGG CGGACAGATA CTTACAGTA
 81051 TGATACAGAT AAGCAATCAG CTGATTCACA TTTCTCCTTT CCCTTTTTGC

V gene exon 1

81101 TCCCAGTAAG CTGCAGGCTT CACAATGGGC TCCATTTCTA GAATGATTAT
 81151 TGAGTTTTGC CTTGATCTCT ACAATAAACT CAACAGAACA GCAAAGGCC
 81201 AAAACATTGT CTTCTCTCCA ATGAGCATCT CTACCTCCCT TGGCCTGATC
 81251 CTTCTAGGGG CACGAAACAA CACTGCTGCT CAGATAGAAG AAGTAAGTAC
 81301 TGCTGAAATG TTCTGAGATA CTTCCACATA GCCTGCTGTT CCCCCAGTGG
 81351 CAATGCTGGG CTTTGCAGCA CAACATGTGT GCTTAGGAGA CAAAGATAAA
 81401 CACAAGCTCA ACTGCTGCCT TGAGAGCAGT GCTTGGTGTG CTGTGATCCC

Fig. 1-31

81451	TGCTCACTTA	TCAACTGTGA	CATTCAAACG	ATTCAACATG	TCTCACCTAC
81501	AGAGCACACG	GAGCCTGGGG	GTACAGGGTG	GGCATGCAGA	AGTCTGTTCC
81551	TCTGGTCACC	ATGCCTTTTA	CTCCCTGCAG	TGCAAGCTGT	ATGCTCTGAG
81601	ATCTTTTATT	TCTTTTCTTA	TTTGTCTCTG	AGAGCAGTAA	GTGACCAATA
81651	CTCCTAAGGT	ATATGTGGCA	TAAGGCAGTA	GCTGGCTCTG	GCTGTGTCCT
81701	GGTGGATCTT	CATCCATTGT	ATTATAATAT	TGCCACAGGT	CAGCTGCTGC
81751	CAAGGGAAAC	TCATTCTCCT	TATGAGGTTC	TGAGTGACTC	TTGCTTAGTT

CR1-c

81801	TAGGAAAGCA	ATGGAGATCG	AGTACTCTCA	ACAAGGGGGA	ATGGCGTCTA
81851	ACTAAAAGAG	CGGAAATTTA	GGTAAGATGT	TAGGCATATA	TTCTTTACAC
81901	AGAGGGCAAT	GAGGCACCAG	CACAGGCTTC	CCAGAGAAGC	TGTGGTGCGC
81951	CATCCCTGGA	GGCGCTCAAA	GCCAGGTTGG	ATGGGGCCCT	GGGCAACCTG
82001	ACCTGGTGGT	GGCATCCCTG	CCCACAGCAT	GGGGTTGGGG	CTGAGTGGGC
82051	TTTGAGGTCC	CTTCCAACCC	AAACCTTTCT	ATGACAGTTA	ATAAATCTAC
82101	ATCACTTATC	CAGGACAGCC	CAGTAAATCT	TTCAAACAAG	GAAAATGCCT
82151	TTATCCAGT	TAAAATTGCC	ATTAATTTGA	CCTCTTCAAC	TGCAGGTTCT
82201	CCACGTCAGC	AATGCCGCAG	GAAGTACAAG	CCTTGAATCT	GAGCTTGAAG
82251	GTGCAGTGCC	CGAAAACAAG	TCTGAACTAA	GCCAGGAAAG	AGAGTCTTCC
82301	CCCTCTCTGG	TATGTCTTTT	TTAGTACAAG	AGTCTTTCAC	TCCACAGTAG
82351	CCTATTAGTT	GTAAAGCACC	ACAGCCTGCC	ACAGGAGGGA	GTCAAGATCC
82401	CATGCACAAC	GTCTGCCTGG	TCTACTACGC	CTGATTGAAG	GTGTTCCCTT
82451	GTAATCAGCC	AAGTCCTCCA	TAAAGTCAAA	TACAAAGCCC	CCACCAGAAG
82501	GAAGATCAGG	TTACAAAAC	TAGATTAGCT	GAATTTAAAT	ATAATTACAG
82551	TGGGAGCTAG	CCCTACACTG	CAATCTAATG	AGGATGCAAA	TGAACAACCA
82601	AAGCTATACT	GAGGAATACT	TGTAATTGGT	GTGTTTGAAA	TATTCCTAGT
82651	GCAACACAGA	TGGGAATCTT	AACCACGAAG	CGTTCCATGC	ACTGCTTTTA
82701	CAACTACAAA	ACCTTGGCAA	AGACTATGTT	TTAAGCCTGG	CTAACAGCCT
82751	CTTTATCCAA	CAAGGATTTG	AACCGCATCA	GGTAAGATAA	CTGTACCTTG
82801	TAACCTCTGT	GGCGCTGACC	CCCAGCTTTC	TGGCAACCAT	ATGCTTCACT
82851	GTTGTCCCTC	CATGTGTATT	TTTGAGCATT	GGAGGTGCTT	CTTGGAGCCA
82901	TATCTCTTAG	GGTTGTTGGG	AAAGAGACAG	AAGTATCAGC	TTTCAGTGCT
82951	TCTGTTTAAA	ACAAACAAAC	AAACAAAGTC	AAGACAACAC	TCTGTAGAGC
83001	AAAAATAAAG	CAGAAGACCT	TTGACTTTTG	GCATATCTAA	CTTGAGCCAG
83051	AAGTGCGACT	ACAGCAAAAA	AATGGCCTAT	TCAAGCTGTC	TGCAAGCTGC
83101	TTCTGGGCTA	TCTTTCTATT	TGCAGCTTTG	CATTGCTGGC	TTTCCTCTTT
83151	TTCTTCTTTC	TTTCTTTTTT	TTTTTTTTTTC	CCCCTGCTGA	ATGATTTGGA
83201	TACTTGAGAA	TCACCCAACA	CATCTTGCAT	CTTCTCTAAT	TTTTTTTTTCT
83251	TTTCTATTTT	TTTAAATTTT	TATCTGGATA	CCTGCATACT	TCAGGTATGC
83301	AGTTTCTGT	GGGAAGACAT	TGTCATCTAG	AGGCAAAAAT	GTATATAAAT
83351	AATAAGAAAG	ACACAATAAT	AATCTCTTTT	TCAAAGATTA	TCTGAATCAG
83401	CTTCTGATAG	TTGATGTTTC	CAAAGCCAAA	TTTTGTCTCT	TTCAGTCAAG
83451	AAGACCTCA	GAATTTCTAA	AACGTTTCTG	AATTGTTGAC	TTCATGTTAA
83501	AGAGAATAAG	CTCTGAACAG	GTTTGGCTAA	TTCACAATCT	TTATTCTGCT

V gene exon 2

83551	TTACAGAAAT	ATCTAATGTG	CAGTAAGGAA	CTATACAGAG	CAGCCCTTGA
83601	AACAGTGGAC	TTCCAAAGGG	CTCTTGAAGC	AAGCAGGCTA	AAAATTAATG
83651	ATTGGGTGGA	AAGCGAGACA	CAAGGTAAAA	CAGAGCAAAA	CTGTAGCTGT
83701	GCTATCTTCT	CCCTCTTCCA	GTGCTCCTTC	AAAAAGAATT	CAGCATATGA
83751	TAAGTCTTGT	TCATGTTTCT	AGGTTTCTCA	TGCCCCGTCAA	AGATAGTTTG
83801	TTGTTCCCAA	TCATTCTTTA	GAGTCATCTA	CCAGCTAAAC	TATTTCTGAG
83851	TTAAAGATGT	GTTTGTGTGC	ACATACTGTC	ATACTCCTAC	CCACATGCCT
83901	AGCAAGATAA	CTGCAACAGT	ACCTCTAAGG	GTTAAATAGA	TTAATTGCTC
83951	CTGCAAAATAG	CCAACACTGC	AGGTACAGTA	AAGCAGAGGA	CGGAAGTTAT
84001	GAGCGTCACA	GTGAGACTGG	GAACAGCATA	GCAGAGAGAG	AAGACACCTG

Fig. 1-32

84051 AGGACCTGGT GTTGACCTGC TCTGGTCGTA CACAGAGCAA TGCTAACAAA
 84101 GATGAGTGAT GTGCCCACCA GAGAGATTTC ACTGTTACAA GTAACAACCA
 84151 ACCAGCTTTT GCCCTTTACA GGCACATAGA GGTCAATTGGC TTTTTTTCTG
 84201 ATTAAGCTGA ACATGAAATA TGCCACTTTT ATTTTGTCTAG AGATGCAACA
 84251 TCAGCAGGGT GAAAACCTTA TAAATCTTCC AGCTGAACTT AAGCCAGAAC
 84301 TTAAGTGGG AAATTACTGA TGGATGAATA GATTGGAAGG CTTCTGATTT
 84351 CTTAATGGTC ATATCCTGAC CAAACCTGTC CTTGGGCTGA CAGAGCAGCC
 84401 TGTGACTAAT GTGGGAAAGA GCTGCAAACC CCAGACCATC ATTGCTCTGT
 84451 GTGCCTGTAC AAAGCCTGCG CGCTTGGGAA ATCCTACTTC ACCTCTGTAC
 84501 AGAAAAAAA AGGGTAAAGG GAAAGATGCC CTCATGTAAA CTGAAACAGA
 84551 GGATTAATGG CGCTGCGCCT TTTACTGTGG ACAGGTGCCA CCTGGAACAT
 84601 TCATTTTGCC ACTGATCCCA CAGTAGGCTA ATTTGATGAT CGGTGCCCTT
 84651 TCCTCTCCCT AACAGGCCAG TACTAGGTAA CAGTGCTGAG AAATTTACCA
 84701 TTTCTTTGCT TGTATCGTCC CTGTTCTGTG AAGAAACAAA CAGTTGGATT
 84751 TCTAAGGTAC TCTAAAGCTA AGTTCACAGA CAAAGTAATTG AGTCTCAATC
 84801 CAGAGCCTTA ATAACAATA ATAAACACCT GTGTTTTCCA AAATTTCTCT

V gene exon 3

84851 CAGGTAAAAT CAAGGAACTT TTTGCTCCAG GAGTGATTGA CTCACACACC
 84901 ATTCTGGTGC TGGTGAACGT GATCTACTTC AAAGCATCCT GGGAAACACAA
 84951 GTTTGAGGAG AAAAATACAG TACAGAGAGA TTTTAAACTG AATCAGGTAG
 85001 ATATGCATTG TATAAATCTT AGCATGATTT ACCTGAGTTA GCATGATTTA
 85051 CATGAGTTGC AACGACTCAG CATTTTGTTT CAATGGCTGA CAAAACACAA
 85101 AGCTTCAGCC CTGATCAGCG CTTTTGAACC TAATAGTCAC TATGGGCAGC
 85151 TGTATGGAT AGAAGCCAAT TGCAAAGATC TCATTTTACA CAGGCTCTGT
 85201 GGGGCCATCC TGGCTTTTAT GCATCCCGTA CAATTCAGCG TGAGCCATGC
 85251 AACAGATAGG TTAAACCAAA CCAATCAAAA AAAGAGGCCA GATATTAACA
 85301 AGCCACATAT ATGAAGATGG AATTTGAAAC AGGAAAAATC CTCACAGAGT
 85351 GTTTTGGTTT ATTTATAGTA TCTGCAATGT TTTAAAGGTT TTTTTTAAAA
 85401 TATTTTTTTT ATTTTGATTC CTTTTTTCCA CCGTACATAT AAAATGGAAG

CR1 - GG

85451 TTTTCATTGC TCAACTAAGG TACAGAATCA TAGAATTACT CAGGTTGGAA
 85501 AGGACCTCAA AGATCATCAA GTCCAACCGC AGCCTAACCA TAGTACCCTA
 85551 ACTCTAACAA CCATCTGTTA AATCATATCT CTGAGCACCA CATCCAAACG
 85601 GCTCTTAAAC ACATCCAGGG ATGGTAACTC AACCACCTCC CTGGGGAGCC
 85651 TATCCCAGCG CTTAACAACC CTTTCTGTAA AGAAGTGTTT CCTAACGTCC
 85701 AACCTAAACT TACCTTGCCA CAACTTGAGG CCATTTCCCC TCGTCTTGTC
 85751 ACCTGTTGCC AGTGAGAAGA GACCTACCCC GCTCTCACTG TAAGCACCTT
 85801 TCAGGTACTG GAAGAAAATA ATAAGGTCTT CTCTCAGCCT CCTCTTCTCC
 85851 AGACTAAAAA GCCCCAGCTC CCTCAGCTTC TCCTCGTAGG ACTGATTTTC
 85901 CAAGCCCTTC ACTAGCCTTG TGAAGCTGCA AAAAGTTCTT TAACAACCAC
 85951 ATTAATCCAA GCTCTGTACA GCTCAAGTCT AACAAATGTC TTCAAAAAAG
 86001 ATGATCAAAA CCATTTTATT TCATTTAATT CAGTTTTGTC TTCATTCCAT
 86051 ATGCTGTGCC TATGTTACAC TAAATAATGA AGCCGCCAAA AAAATGAACC
 86101 CACAAAAAAC ACAGATTTAG CTCTGATCTG AAGTTGAAGA GCTTTGTATG
 86151 GGAAAAACTG TATTCTAAGT GTTTCTTATC TATACAAACA AAAGGTCAGA
 86201 AAGACATCTG TTGCTAGCCG TAGTGTTGCA CTGCCATTTA TTAAGACACG
 86251 TAAGAAAGTG TAATTTTGGT CCCTTAATTT TTTTACTTGA AATATGTCTT
 86301 TGAATTTGAA TACTGAAAAC TGACCTTAGG TAGGAACATT TGGAACACTG
 86351 CTGCAGTCAC AGAAACTATG AGATTGGGGG AATCTGCATA TACTTTTCTT
 86401 CATGCACTAA TTAATAATGT TCTCTACTAA AATTCTTCCG CTGATTTAGA
 86451 AGGTAAGTAA AAACTTAGCT AATGGTGAAA TGAACCTTGA GCCTTTACAC
 86501 AGGATTTGAA CAAACTCATC ACAAAGAAA ATGAGGCTTA GAAGACCTAG
 86551 AAGAACATGC CTGAGATTGC TCTTAATCTG TCTATTGCTT CCTGCCTAAA
 86601 ACATCTACCT GATAAATGAC AACCTGATTC CTGCAGTGCT ATTTCTTCTC

Fig. 1-33

86651 TATCCCATT CAAACCAGGA CTTGCAAATC CCATCAGCAT CAGCTTGTTT
 86701 GGCTGGAGAG TAATGGTATT AAGCCACTTC ACTATCTGAT CAGTTGCAGG
 86751 GAAATTGCTT TGTTTTATTT TGCCCCCAG AGAATTATCT CCTTTATACA
 86801 TGAATGGCAA AACTGATGTT TTACGTGTCG TTGTATGTGC AACAAAATAA
 86851 AGAAAAAATG TTTAGCTTTA TAACAATTAC TGCTGCAAAC ACAGACTACT
 86901 GATATTGCAC CTGAAGTTTA AACATTAAGG TCTGTATTGC TTGTGTGATC

V gene exon 4

86951 ATTCCAATTT CTTTTTAAAT AGAATGAGAG AAAGCCAGTA CAGATGATGT
 87001 ATCAGAAAGG CACATTTAAA CTAGGCTATA TTGAAGAGCT GGGAACTCAG
 87051 GTGCTTGAAC TCCCTTACGC TCAGAAGTTG CTTAGCATGA TCATCCTGCA
 87101 CCAGGAGAGA CAGCAGATGG ATCTCCAGT GGGGCTGGAA CAGGTAAGGG
 87151 TGAGGACTGC GGCTAAGCCG GACTGAAAGC TGGTTGTCTG AATTAAAGCT
 87201 GGGCAAAAAT CTAAACTTGT TAATTTCCCC ATCTTCTAGA CTGAAAGCAC

V gene exon 5

87251 AATGACCTAT GAAAATTTAA TGCTGTGGTT CTCTCCGAA CATATGTTTG
 87301 AGATGGTGGT AGAGGTGTAC CTGCCCCGAT TCAAGCTCGA AGGCACCTTT
 87351 GACCTCAATG AGGTATTAAA AGCAATGGGA ATGACTGACA TCTTCAGTGA
 87401 ATCCAAAGCT GATCTTTCTG CATTGTCTATC TGAGAAATCC CTGGTGTGTG
 87451 CAAACATTGT CCACAAGGCT TATGTGGAAG TCAATGAGGA GGGTACTACA
 87501 GCAGCAGCTG CTACAGGAGC TACCATTGTG AGGAGGTCTC TTCCCCTCAT
 87551 AGAGGTGTTT ATAGCTGACC GTCCTTTCTT ATTCTTTATT AGGCACAATC
 87601 CCACCAGTAC CATTCTTTTC TTTGGTAAAT TCTGCTCACC TTAAAATCAA
 87651 GGCCATCTTC TAGCATTGTG AGAAAAACCT GGATGAATCA GAAATACTAT
 87701 TTTTCCCCCT ACACCTTCTT ATTCTTATGA ATGATTGTAG ATCAAAGTAA
 87751 TCACTGCAGC CAACCTAGCC TAGAACCATC AATTGAATGC CCTCCTGTTA
 87801 TGCTCCTTGA ATGGCAAATA TTGATCTGAA TCTAAAACAG GAGTAAGTTT
 87851 TCCCTTAACC TGACTGGAAA TCAAGAATAT TTTGTTTCTT CAAGGCGTAC
 87901 ATACACTCCT GTATAGCCAA GTATGTCCGG CATAGCCAAG TAATGTAGTA
 87951 CACTATTTGC CTGGCAAAGG TAGAATTTGT ATGCTGCTAC CTGAGGAGAA
 88001 CTGTTTGTA CAATTTTCAG TAACTGCCAG TAAAAGTGGA GTATTTTTAT
 88051 TTTCTCTGTA GTTTTTGATT TCCTGCCAGG TGGGACTTGA TTAACAGAGA
 88101 GGGGCTTTGG AAATGCTTTA TACTTATACA TAATCTGTAT TTGTGGCAAA
 88151 TCCTTCGCAC AGTGGAGATC TCACTTTGAT AATTCCCTTT CCTGTAGCAG
 88201 CAGTCACAAG CAAGCAGGAA ATACTTATTT ACAGCAAATT CACGTGTTTA
 88251 CTGACAACTG TACCACCTTT CCCCCCATGA TGTATGCTGG ATCTATCCTT
 88301 TTGCCATATA AAACGTTTAT GCTAGAAGCA GCTTTGGTTT CATTTATTTA
 88351 TTTAGATATA AGCCTGCATC TGAAGCACCA ACTCATCAAC TGGAAGATAG
 88401 ATGGAATATG ACATATACCC CTTTCACAAT CCCTTGTTT TTTCCACATG
 88451 AGTTCTGTTA GAAGCACTGT ATTTTTCCTT TTTTAAGATA ACAACAGTAG
 88501 GAACACTCAT GGAAAGGACA AGATTACGCC TCATGAACAC ATCTAGTAAG
 88551 AGAGTTGATT ATAACAGCAA CTGAGTATGT GGGAAAGCAA GATTTTGACC
 88601 CTCGTTTTAC AGGATTTTTT GGCACCTTT TTTGAAAATA AATCCACCCT

CR1-GG

88651 TAAAGAAATCA CAGCATGGTT GATGTTGCAA GGGACCTCTG GAGGACATTT
 88701 TGTCCAACCTG TCCTGTTTCTG GCAGGGCAAC CATGTCCAGG GGGCTTTTGA
 88751 GAATCCCCAA GCACAGAAAC TTCACAACCT CTCTGGACAA CCTCTTCTGA
 88801 GTTCCACAA TTTTGAATGA CACCAAAGAG AATTTTGTAT GCGCAGTGTC
 88851 TGCAGGAATG GGATGTGAAA ACACACATTT CTAAAGCTTA ATTACTTACA
 88901 TAGTGAAGTA ATTGGTTTTT TTCCTTGAGT TCTGCTCTCT GGTGAAGTTT
 88951 AATGATCTGA GATGCATGTA TATAGATATA CAGGTCTCTC CAGCCCTGAG
 89001 GAATGAAGAA AAGTTTTGAA AAGGGCAATG TAAGCAATAG AAATCACAGT
 89051 CAAATATTAC CTGGAAAAC TTTTAGTCTG AGAGATAATT AGAAAAATAG
 89101 AATTAGCAGC TGACTGATAG AGAGACATAA CTGTAAAGTT GCTGGTTTAA
 89151 CACAAGTAAT ATCTTCCTCA CAGAGTTCTA TGTGAGGTTT AACTAACTAG

Fig. 1-34

89201	CGTTGGCAAC	TTGTGCTTTG	TGACCTATAA	AAAGGCAAGT	ATACATTAGC
89251	TATTAGTCAT	ATAATTGAGT	GTAAAGCTCC	ATAAAGTAAT	TCATGATTAG
89301	CACAGTTTAT	GTACCAAAAAG	TTACCTGCGG	CTCTTTGGAT	AAGAAAGTCT
89351	AGGCATGATG	TTCGAGCAAG	AACAGGCAGG	AGTAGGACAA	TAATATTCAA
89401	ACAACCTTACC	CTTACTGACT	AATCTGAAAG	CACAGTACAA	TGTAAGCAGT
89451	ACTTTTCCAG	ATTGTGTCCA	TGTTTCCATT	CTGGAGGCTG	ACAGCACAGA
89501	TTGCCTACTA	AGCTATGTTT	TTATTACCTC	CAGGTGTCAT	CACTTGGTTT
89551	TTACATACCC	TGGGGAAGTT	CTGAGCACCA	CAACCTCAAA	CATCAGTCCC
89601	ACTTCTGCAA	CGACAGGAAC	AGAGATTCCCT	GTGATGAAGC	GTCGAATAAC
89651	ACAGTGCTTT	GCTCCAGTTG	TTGGAGGAGA	TGGTTCATGA	TAAATCTAGA
89701	GTGAGATTAA	GACACAGATG	AGGTCAAATG	TCATCCAGCT	AGTTTATGAC
89751	AAATTCTAAG	CAGTTAAGGA	ATGTGGGAAA	CATGGCAAAG	TTAGCAACAG
89801	TAAAGGGAGG	AATTCTAGCA	AACTGGCTAT	AGAGCAGGGA	TACTACCCCC
89851	CATGGATCTA	GCAGTATCCC	ATTGGTTTGC	AGGAGGTTGC	AGGTCACTCA
89901	AAGACATATC	ACTGATCTGC	ACAGCTGCAG	TTCAGTGGAG	GATTGTCTCT
89951	GTTCTACCAC	TGAACTCTTC	AGGCTTTATC	CTCTTCATTG	TGCTCTCATG
90001	CACCTTCAGT	TACTCAGGGC	CAATGGCATG	TGTGCCTCCC	ATTGGGTGAT
90051	CGGCTGTTGA	TCATGCAGCA	ATCACACACC	TGCCACCTGG	CACGCTGTTC

CR1-GG

90101	GGCATGTGTA	CTGACTTAAT	GGAAGAGACC	TTTTAAGCTC	ATCTAGTCCA
90151	ACTCCCCTCC	ACTGAAGAGG	GACACCTACA	GCTAGATCAG	GTTATTTCAGA
90201	GCCCCGTCCA	GCCTCCTCAA	TGTCCTCCAGG	GAAGGGGCTT	CTACCATATC
90251	TCTAAGCAGC	ACATTCCAGT	GCCCCACCAT	CCTCACTGTA	AAAGAATTTT
90301	TCTTTATATC	CAAGCCAAAT	CTCCCTTCCT	TTAGTTTGAA	ACTATTTCCC
90351	CTTGTCCCAT	TACAACAGAT	CCTACTAAAG	AATCTGTCTC	CTTCTTCTTA
90401	AGAGCTCCCT	TGAGAAGGGA	GCTCTTCTCA	GGTCACCTTG	GAGCCTTCTC
90451	ATATCCAGAC	TGAGCAGTGC	TAGTTCTCAG	CCCGTCCTTG	TAGGGGAAGC
90501	ATTCCATCCC	TTGGATTATT	TTCCCTCTGGA	CTCACTTCAA	CGTCCATGTC
90551	TCCTCTGTAC	TGAGGACTGC	ACATTTGGAT	GTAGTACTCT	AGGAGAGGCC
90601	TCACCAGCAT	AGAGCAAGGG	ACAGGATCAC	CTGCCTTGCC	CTGCTGGCCA
90651	TGCTTCTTTT	GCTGCAACCT	AAGATACGGT	TGACTTTCTA	GGCTGCAAGG
90701	GCACACTACT	GACTCACGTC	CAGATGCCAT	CTACCACAGT	ACCCCTAAAT
90751	CCTTTTCTGG	CAGGGCTATG	CTCCCTCTTT	TCGTATTCCA	GCTTGTAAAT

V gene exon 6

90801	GTAGTGGGGG	TTGCCATAAC	CCAGGTGCAA	GACCTTACCT	TTGGATTGTG
90851	TGACCCTCAT	GAAGTTCTCT	CGGGCCCACT	GCTTGAGCCT	GTATGGATCC
90901	CTCTGAATGG	CATCTCATCC	TTCAGGAGCA	TCCACTACAC	CATACAGCTT
90951	GGTGTCTTTT	GCAAACCTTG	TGAGGGTGCA	TCAAAATCCT	GTTGACAATG
91001	TTACTGATGA	AGACACTAAA	GAGTACTGAT	CCCAGTACTG	ATCCCTAAGG
91051	AACACTACTG	GTCAGTATC	TCCATCCAGA	CATTGAGCCA	TTGACCACCA
91101	CTCTCTGGGT	TTGATCCCGC	AGCCAGTTTC	TAGTCCACTA	GTCAGCACAC
91151	CACTGATCAT	AGCCCACTC	GAAGGGGCAG	TCATGCAAGC	ACCACCCTGG
91201	GTATTTATTT	CCCAGCACTC	TAAAGCAGAG	CTCTTGCTCC	AGCTCATGTT
91251	ATTTTCTGTG	TGGCAAGGAG	TGAGATTTCAT	CGACTCTAGC	AAATGGAAGT
91301	AATGGCTCCA	TGTGCCCCAG	GTCTCAGCTC	AGCACCAGCC	AGGCCAGGGC

V gene exon 7

91351	TGAGTCCCCC	CACATCCAAC	CCATAAGGTC	CCAGAGGACT	CCTACGTTTA
91401	CCAGTGGTGC	ACAGAGATGA	GTTTAGCCCA	AGTCCACCCC	TCAGCCTCAA
91451	CTCCCTTCAA	CACCTCTTCA	CCAAGAGGCC	CAATCCATCA	CTCCTTACCA
91501	GCCAAAACAT	ATACTTGTTT	AATACCACAG	CCACAAAAGC	CACGTGGTAA
91551	GGTCTGAAGA	GACCAAAACT	GTGGTTTGAG	TAAAACAGAA	GGAAAGCCTC
91601	TACTCAGTAC	CCCACTTATG	ACTGAGTTAC	TAGGATAGGA	CCTGATTCTA
91651	CAGCACCCCA	ATACCCTGTA	GATGTATTCC	TTTAATTCTT	CACACCAGAT
91701	TAAGGCTGCT	GCCACCACCC	ACCACAAATA	AATCCTTGCT	TAGGCTGATT

Fig. 1-35

91751	ATAACTTACA	CCTGTGGCTT	CCACAGTCAA	ATGAGATTCC	CAGTGCCAC
91801	CTGCGTGTTC	AACTTCCTTA	AGGCAAAGCA	TCTTGCAGTT	AGCAGAGTGT
91851	TAAGAAATCT	TCTTGTATTT	CCTTTAACAC	ACGTTTATCT	TCCCCAGTGA
91901	TGCTGAATTT	GCAAATGCTT	TAGGGAAAAA	TTGGCAGCAA	GTCCTTACAT
91951	AATTACTGTT	TAGCCTAGAA	AATAACAACC	GAGGTAGAAT	ACTTCAGAAA
92001	GTTTCTAATT	TAAGGTTTTT	TTCTTGATGA	GAGAAAAGTG	CTATCAGAGC
92051	TGTTTAGTAA	TTCCAGTCAT	GCATGGGTAA	CTCATTCTTC	TGTGTTAGGG
92101	TTTACTGAGA	GGTGAAGAAA	CAAGTAGTTT	CTTTTCCTTA	TGAAAAAAA
92151	AAAAAGTGGT	ATTAGAAGAA	CCCCATAAAA	GAATGCCAAA	CATTGCAGCT
92201	TATGATGTGC	AATGTGTCAC	TCAGTCTTAC	AGATGACACA	GCCTGGAAGT
92251	AAGCTTAAAA	AAAATGTTTA	ATTCTAACT	TCTTTTGACA	CCATCTGTGC
92301	TGTGGTTTTAT	GACATCCATT	AATAATGTTT	ATCACTAAAC	AACAACAGAT
92351	AGAGAGACCA	GAAACTAAGG	ATGCTGCTGT	CATTTCTTTC	TGATGCAAGG
92401	TAGAAACATC	AGGAAATTAA	GGCACACTGA	AATATTTTGT	AATATTTTGG
92451	ACTAGAAGCA	AAACCAGAAA	CTGAGTTGCA	TTTGTCTCCT	GGAGTACATT
92501	CTACAGGTAT	TTAAAAAGAG	ACAAAAACCA	TAAATCTACT	TGAATTTAAT
92551	TTGAAGTATC	AAATGAAAAA	GATGTACCTG	ATTTTATTAT	CCTCCACACT
92601	GGTCTTCTGA	ACTTGACCAA	TCCCCTGGT	CAGTTACTGG	TTTACGACTG
92651	CTCAAGCTGT	TTGTAGCAAC	TATGTTGTAC	CACAAAATAT	CTGAGCCATT
92701	ACAAAACAGA	AGAGTCATTA	GGCATTTTAT	CTCCAACCCA	AAGCATACAT
92751	GCATGTTTTA	AAATCTCAAA	TTCTCCTGAC	TTTAATTGTG	CATATTATGT
92801	TCACCAAACC	TTTTAGAACC	TGCCTTGTTT	TTTTTGTTCT	GGTCTGTAGC
92851	TGGGAGTCAG	AGAAATTCAA	CTGTGATTGG	AAAAATGGTT	ACTGGCAAGC
92901	TATAGAGTTT	CTAAGCCAGA	AGGTGAAGAA	ATACTACTTT	TTTAACACTC
92951	TTGGCCTGGG	ACTAGACTTA	CAGACATGAT	CAATATTGAA	AGGCAATTTG
93001	GAGGTATACA	TTTTAACATG	TCCTCAGTCT	GGAGTTAGCT	GTGTGTCCAG
93051	TTTCCTCTCA	GTGTGAGTCA	AGCAATAGCA	TTAGAAAGTT	ATGCCCAAG
93101	TCTCATCCCC	TCCTATTGAA	ACTTGGCACA	GCACATTCAG	GCTGTAAGCC
V gene exon 8					
93151	ACCAGGTCAC	AGCCCCCTTA	AAGGATTTCGG	CAACAGCTGT	GGTTGCTATC
93201	ACATGGTGTT	GATCATCGTT	GGGCCCCCTCA	CTGTAAGAAA	GACATTGAGA
93251	CCCTGGAGCG	TGTCCAGAGG	AGGGCAACAA	AGCTGTTGAG	GGGTCTGGAG
93301	CACAGGCCTT	ATGAGGAACG	GCTGAAGGAA	CTGGGATTGT	TCAGTCTAAA
93351	GAAGAGGAGG	CTCAGGGGAG	ACCTTATTGC	TCTCTATAAC	TACCTGAAGG
93401	GAGGTTGTAG	TGAGCTGGGG	GTCGGCCTCT	TCTCTCGTGT	GACTAGTGAT
CR1-L					
93451	AGGACTAGAG	GGAATGGCTT	CAAGCTGCGT	CAGGGAAGGT	TCAGGCTGGA
93501	TGTTAGGAAA	TACTACTTCT	CTGAAAGGGT	GGTCAGGCAC	TGGAAAGGGC
93551	TGCCCAGAGA	GGTGGTGGAG	TCAGTGACCC	TGAAGGTGTT	CAAAGAGTGT
93601	TTGGATGTTG	TGTTGAGGGA	CATGGTTTAG	TGAGAACCAT	TGGTGAAGGG
93651	CGAACGAATG	GTTGGACTGG	ATGATCTTCT	GGGTCTTTTC	CTACCTTAGT
93701	GATTCCATGA	TTCTATGATC	ATTACACTGG	ATTTGATACT	CTGTGAGCAA
93751	AGGCATTGAA	GTGGTACAAA	AAATTCAACA	TTCTGCATTA	AATTGTAGAA
93801	TCTGGCAAGT	GGAAATCGTT	TTCTATAGGC	ACAGCCACGC	ACTCAGAATG
93851	TGTTTGCAAT	TTGCTTGCAAT	TTAGTCTTCT	GCAAGTAATG	ACTGCTTTCT
93901	GTATGCAAAAT	GATTGATCCA	TGTGAAAAAA	TCTGCTTGTG	TATCTGTGAA
93951	TCAAATGCAT	TGCTTTATAA	TGTGCATTTT	GGATCATTTA	TTTGTGGAAG
94001	TAAGTGTAAT	AAACAGAGCC	TGCAATTGTG	CTTCTGCAGT	ATACAAGGCG
94051	TTACTCAACT	CCAGCTGTAC	AGTCAGTCAG	GCCCTGAGAT	AATCTAGACT
94101	TATACTTTCC	ATAGTTATTA	TAATTTTGTC	TCTTACTAAA	TCTTTGATTC
94151	TGCTTGTTTG	ATAAAGTAAC	ACTCATTTTC	TATATAGTAT	TACAATCGCT
94201	TCTAGAAGGC	ATTACATCAC	TGAATTCATA	GGCTTTCTGA	AAAACAGATT
94251	CAGAAATCAG	ATTTTCTAAC	TGTATTTTTC	CATGTATATG	TATTGGAGAA
94301	CTAGTGAAGA	ACGTGTTTAA	TATACAGAAC	TACAGATAAA	TCCAGAAAGG

Fig. 1-36

94351	AGAAGCAACA	CTCAAAATAA	GGATGTGGCA	ATCCTAAATA	GGCTGTAAGC
94401	TGGCTTGAAG	CATGTCCCTC	CAAAAAAGCC	ATCTGAGAGA	AAATTTCTCA
94451	TTTACCATGC	ATGTGCAAGT	TTCCAAACTC	TGCAGGTATT	TTATTTTCTC
94501	CTTTTGCAAA	TTCCCTTGCA	GATGGCATT	TGCTTTGCTT	GCTCTGAACT
94551	GCGTTGATGT	GAGCAGTGAG	GTGCTTTTCT	CATGCTGAAA	TACAAGAATA
94601	AAGAAGATTG	AAGCACAGGT	CTGTGCAGAA	CATCTAGTGA	ATGTATTCAG
94651	GGCATGCCAA	GCACAAGCTA	TTCAAATATT	GCTCCCTGAA	AATGCAGTCA
94701	GAGTGGACTT	CATGTTTTTA	AGTGGGAAGT	GTACATAACT	TCTGTAGTGG
94751	AGAAATCGTG	TGACTCAGGG	GGTGAAGGGC	CTATCCTCAG	TTAATCCCAT
94801	ATTCTTGTTG	CAATATGGGC	CTGCATCTTC	CAGCACTGTC	AGACTCCAGG
94851	TTTTAGCATA	AGATCAGTGG	AAAAAAATAT	ACACAAATAT	ACCCCTTGCT
94901	TCTGAAGCTC	TGCCCTAATT	GGGATGATTG	CAAATAAATG	AAAAAAAAAA
94951	AAAGGGAAAT	TCAAATACTG	ATGATAACTC	TGCAGTTCAA	CAACCAGGAC
95001	ACCTAGTAGG	TGAGTTCTGG	CTTCCAGTCC	CTGCTGCTAG	GACTATTCTT
95051	GTTTTAATGT	TTAAGAGAAA	ACAAGTATTC	ACACATGGGT	GAGTACCCTA
95101	GCAATAATGA	CAGAGAACTA	TTCTGCTCTA	TAGCATTCTG	ATAGTATGAA
95151	TCTCGCCTTA	ATTCCATAGT	CTTCTCTTAG	TACCACGTCC	CCCAGCTCCT
95201	GTTGTCTGAA	TTAAGCAATC	ACTGTGTGAC	ACCTACGTCG	GAGCTTAGCT
95251	CCATTACACT	CAATGAAATC	AGTTGCTGGT	CTTCTGTGGA	AAATATACTA
95301	TTGCGCCCTG	AGCAGTGCTG	AGCACAGCAC	CTGTTTGCCT	AATATTAATG
95351	CAGCACTCAG	ACCACAACCA	GCCTCAAGAC	ACTCAGCAGA	AGGAATATTA
95401	TGAAAACAGT	AGGTGCTGCT	CCTGAAGCAT	AACAGCCTCC	AGAGATGGAA
95451	GACAAGAAGA	TGTGCTTTGG	TAGTGTGTGG	TGCTCATTTT	CTTGTTTCATG
95501	AATGATGATG	GGAATGACTC	TGGAAGACAC	ACCAGAGGCC	TCTGGTGTAT
95551	ACCCCATGCC	TCCAGCCTGG	GCAACTCCTC	CTTGCTGCCT	TTTTGACTTG
95601	TTTTGTGCAA	GCCATCCATC	CAGAGGTGCA	GAGTGAAAAC	AACCATGGAG
95651	CTCAAGAAGA	GCCTCATCAG	GTCCATACAC	ACTTCAAACC	CAGAGCAAAA
95701	CATTGGAGCC	TCGGGCTCAC	TGCACAGTTC	TGCTGAAAAC	TGTGATGAAG
95751	AGCTAGGGGT	TAGAGGAAAA	ATGTGCTGTA	GTTATCAGTG	CAGCTCCATC
95801	ATCTGTTCCG	GGAGCATCAA	GGCTTCCTGG	AGAGAACATT	ATCAGAAGGA
95851	CACAAATTAT	TCAGTGAGAG	GGAGAAAGTGC	GCCTCTGAAC	GCTCTGAGTC
95901	AGATGCTTAT	TTTGTGAATT	TTTCTGTTTC	CCTCTTCCTG	TTATGCTTCC
95951	TGCAGATACT	TGGCACATCC	TTGAGGCGAT	TCAGCAATAT	ATGCTCATAT
96001	TCAGCCACAT	CTACAGAGTG	CCTCCTCCCT	GAGAGGAGAA	AAATATTTGT
96051	TTTAGGGGGT	AAAACCAGAA	TAGCTGTGCT	TGGACCTCCT	GCTCTGCTGT
96101	GGGACAAGAG	AAGCTAGGCT	CCTGGTAACC	TCAGGAGGCA	GAGGGAGGCA
96151	CATTATAATT	TGGCTAAGAC	TTGAAAATGC	AATTTGTTGG	TATATTTGGT
96201	AAATATACTG	ATGGCCTAGT	CCCATAAACT	ACCTTCTAGA	TGTGGAGTAA
96251	GTGGTTTAAA	GGCATAGCTA	AGAGGTTGCA	GAAAAGAAAG	GACCACATCC
96301	AATTTGGTAG	CAACCAACAT	CCAGCATTTCA	CAGACTCATG	AGAAATACCT
96351	TTTAATTAAT	TTATTTATAT	TAAATAAAAA	AAAAAATCC	TTTGATGACT
			MAR (0.81)		
96401	CACCCTGCTT	TTCCTGTTAC	TCTCAGTTGG	GAAGAAAGTA	ACCGCTGGGT
96451	ACATACTACT	GCAATTTTCA	AGCTGCAGAC	TTGAAGAGCT	TTCCCAAGTG
96501	CTGAGATATG	CAGGAAAAAA	AACCCTGTAA	ATTACAGTAC	CAGGCATTTA
96551	ATTTTGATTG	CTAAATAAAG	AAGACTCGTG	ACAGTCCATG	ACTACGTCTT
96601	GGAGGGCTGC	AATTACATAT	GAAATATAGT	CTGAATTAGG	AGAGTTACTG
96651	GCAGAGGCAA	AGTTTGCATG	CCAATTAATT	GGTAAAAGGA	GAGTACGCCA
96701	AACACAGGCT	GTGGACTGCT	CTGATGAACT	GAGTATGTAA	AAAATAGCCA
96751	TGTGTGTTTT	TCAGTGAATA	CCATGGTATA	TGTCTGGTTT	GAGTCAAATA
96801	TGTATTAAAA	TGAAAAAATA	AAACAACAAG	AACAGTGAAA	TAAACAGTGC
96851	TAGCATATAT	TAGCTTGTAT	AATCAGACCT	ATATAGTTTT	CAAATAAATC
96901	TTCAAGGAGA	ACAAAATGTA	TAGTATGTAT	GATAAGGATA	AGTACTATAA
96951	AACATCATCA	TGAGGAGTGC	CAGTCTGACA	ACAGGAAAAG	GAATTCAGCG

Fig. 1-37

97001	TGTGAATGAA	GGGGAAAGTG	TGACTGAAAC	AATTGTCACT	CAGCTTACTA
97051	CAGCAGAAGC	AATCATTTAT	GATCTTAGAT	TTTTTTTTTAT	TTTTTTTTTTT
97101	AACCTTGCTTC	AGAGATATCT	AAGTAATCTC	AAAAACAGGA	ACAAAATACC
97151	AACGCAAGGA	AAAATTCTAT	TTTCGCTTCA	TATAATCTTT	TCTTTTTTTT
97201	TCTAGTTGCA	TTCTTACCTA	AAAAACAACAA	CAACAAAACA	TTTAAACAAT
97251	GTTTAAATGT	TTACTGCTGG	TTTGATTACA	TCAAACCGAG	TTGTTGCTGG
97301	AGATGACCAG	CTATCAAGGT	GCATAATGGA	CTGGCAGATG	TGCTTGGTCT
97351	TACCCCAGGT	TGCTGTGCAA	ACACAATACA	CATTGACATA	TAAGCTACTA
97401	TGAGTTCTGA	AGGGCAGTTT	AGACATTAAT	TCTACTCCAG	GCCAGACACG
97451	CTGACTATCT	GAGTGGTTTA	TAGCAAGGGA	CTGGTTGACT	TCAAAGTGGT
97501	TCCAAGTCAA	CCACTGCCAA	GTGCTTAAGA	CTGTGTATGC	ACAACAGAGC
97551	TGATCATCTC	CAGTGCAACA	AATAACATGA	GAGCAAAAAG	CATCTGAAAT
97601	TCTGTAAATG	AGGCTGTTCT	GGCCACACCT	TGGCTCATTA	AAAGACTTTG
97651	AGAGATGCCA	GAATAGCCTC	TGCTAAATGT	GATGCAGATG	GACAAGCTAT
97701	GGAATGAATG	GGTCCAGGGC	ATAAGGAAAC	ATTACCCTCA	AGCACTACAC
97751	AGGAGCTGCT	GAACAACCAC	AGGAAAAGGAA	ATGTGAAAAT	GTGAACAGAT
97801	AAATGTTGGA	AAGAGCCGCA	TTTCTGCTGC	TTACTATGTC	CTTGATTATG
97851	CCAACATTAA	GGAAGAATGG	CAAACCCCGT	GAATTGGTTT	AGGAACAGCT

Y:OV-1 element

97901	CTACAATGGA	CTGCCTGACG	GAGGAAAAGG	GCAGCAGAGT	CCTTGCTGAC
97951	CTCTTTCTGG	TACAAACACA	GATCTGGAAC	AGAGTTTAAC	CAATTAGTCT
98001	TGCTTGCAAT	CATGCCTCTT	GAATTTCAAG	AGGTGCCCTT	GATTTCCCTT
98051	GGCCTAACAC	CCCATCTAAA	ATTACAAAAC	CATATTTTGT	CTGCTGAGGA
98101	CTGTGCACGG	ATAGCCCGTT	CTGGTCAACA	TACTCAGGCT	GCTTCTGCAA
98151	CAAGTTTTGC	ACTGGCATT	AGTGTAGAAA	AAATGCAAGA	CCTGTGTAGC
98201	GGCAGACTTC	TCTCTGGAGA	ACATGTATTG	CCTCAACTAT	CTTACCTGTG
98251	CAAACTGTT	GTGGTGACTG	TGCTATTGCA	GAGGTAGAGT	GTTCAAAGAA
98301	GGCAAACGTA	CTGAATGAGA	GAACACATCA	AAAACACCTT	CATGCCCTCT
98351	TCTAGGGGAG	ACAGCGAAAC	AAAATGTTTA	TTGAGAAAAT	CTTGGACATC
98401	AGTCCAAGAG	ATGAAAACAC	TGTCCATATG	TGCAGGGCTG	GTTGTGTTCT
98451	ACAGGTCCAT	GCTGCATAGA	TGACCACAGA	GGACAAAGAC	ATTGAAACCA
98501	AGCATACAAA	GGGCTGTGGG	TACCCAGGAA	AGTTCTTCAA	GGAAGCCTTG
98551	AAGGGATGTT	TGAGTACCCA	CCTGACCTGT	AGCTGCAACC	CTGATGTAAA
98601	CATGTGAAAA	TGGGAGCATA	AGAGAAGACA	CTACACACTG	CAACAAAACC
98651	TGTGCCCTTG	GGGAGGAAAA	GTTTGACAAG	ATAAAGTAGA	AGCTATTGAA
98701	AAAGGAACAT	TAAACAAGAC	AGGAGGAAAG	CTTCTTACTA	TCTGTAGATT
98751	TCCCTACTCC	CGACATGACT	ACTGTGATGT	TGACAGATAA	AAAATACTCA
98801	TTTGTAGTGT	GGAACTGAA	AGCCATTCCA	GTTATCATGG	TCTGCACATA
98851	CACACATGAC	TGAATTTTCA	CAACACAAAA	CACAGTGCTT	ATGATAAAGG
98901	AGCTCCCTTT	TACCTTTACC	AGTGGGTACC	ACCACCACTG	TGTACTGTCT
98951	GTCTTAATGT	GCAAAAATTT	GGGATTTCTA	TTATTCATTC	CCCTGGCCTT
99001	AACAGAAGCT	GGATTTTTTT	CTTTAGTGCT	CATCAAGGGC	ATTATTCAAT

SDRE fragment

99051	AAAGAGTAAT	AGCTTTTTTAC	AATTGACTAA	TATTTGATAT	TGTGCATTAT
99101	GATTGTCTAA	CAGACCATGA	ATGTTCCCTC	AGACAGATTT	GGTAGTTTAT
99151	TTACCTGTCA	TAGTAAAATA	GGAGGTACAG	AAGATCTATG	AGAATAGCCT
99201	GTGCATGTAC	AATGGGCCTT	GTTGCCATGA	CCTATGAAGA	ATGAAAATCA
99251	AAAGCTGACC	ACCAATCATC	CCTTGAATTC	CACTGGCTGT	TCAGCATTCA
99301	CTTCTGAATA	TCTGAATACT	CTGGAGTCTG	CCTTCGCAAA	GCAGCAAATA
99351	CTTTCAGACT	GTTCCCTAAA	TCTCTTCTC	TTACCTATTC	ACACTGAGTT
99401	CTCTAATTCA	TCCCAACACC	TCTGCTCTGA	ATTTTTTCAT	AAGAAGCTTC
99451	AGCAAAATGT	GCTTTCTCCT	CTCAAATGTA	TGCTGCAGAG	CCTTTGGCTT
99501	ACAGTGGATA	TAGCCCAAAT	TCCAGTGAAA	AACTTCAGTC	TTGCCTAGGT
99551	GCAGAAATAG	ATGGAGCTGT	GCTTTTAAAC	AGTACTAACT	ATAAGCTTCT

Fig. 1-38

99601	TCAGTTCTCA	AACTCTTTCA	GCAGACCAAA	ACATTTTTCA	GTACAGTTTT
99651	GTTCTTTAAA	AAACTCATAA	AGCTTTGTTT	CTATTCTTAC	ATGGAAAGCA
99701	ATCCATTACA	AAATCCTCAA	AATAGAATGA	CCATCCTGCA	GCTGACTCTG
99751	CTTGGAAGTG	CATTATTTTC	TCTACATCAA	GTGGTTGCCA	TCCATGAGAA
99801	GCATCCCTAT	GTTTCTCTGC	ACACTGCAGT	AAGAGATCAC	GTATATATCA
99851	CACTTTTCCC	TTCACCCATC	TTGGGAGCAG	TGCTACAGTA	AATTGTATAA
99901	TTACAGTGCC	CCAGAGATGA	GAAGAACTG	AACAGCAGGA	AAGGAGACAC
99951	AGTCTTAAAA	AGAAGAATGT	TTTCCAGGAA	TTGATGCACT	TTCTTGCACT
100001	CCTTGGTAAT	ATGGGACTAC	TCTTGCCTCA	CCTTTAGCAG	TGGGTGCTCA
100051	TTAAATGGTG	AATGGTGGTG	GGTCTTCTGG	TTCTCCAATC	ATGTCTTATT
100101	TTCTCATAAT	ATTTTGGGAT	CCTTAGATTG	ATCTGACTGT	GAGAATCACT
100151	TGATCTGATT	TTTTTTTTTTA	ATCTGATTTT	GCAGCTAAGT	TTATCTGAAG
100201	TGTATTATGC	TTATCCTCTT	TTTTAAGGGT	TTTTTTTTTTT	TTTAAAGTGT
100251	GTGTATTTCAT	TATTCGTTTG	GCTCTAGTTA	TCGATATGGC	TCAATCAAAT
100301	TAATGTTTTAA	ATTCTGAAGT	AGAGCATGAG	ACATGCTAGA	CTTGAAGTTG
100351	GTACAGCTTT	ATAAGATACA	AGAAAAGCCT	GAATAATTAC	ATTCTACTAT
100401	TAGGTTTCAC	TTCACAAAAT	AAATTTGGCT	TTCTCCAAGT	AGAGTACCAG
100451	TCTAATGTTG	GCCTACTCAG	TGCTTTCAAG	CACAATGAAT	CAAAAGGCAA
100501	TGACAAAGGG	TAGTAACTCA	AAGGATGACT	CTTAGAAGGC	TAACAGGGGG
100551	AGTGTCCGAA	AGGGTACTGT	ATATATCACC	AAGGACTCAG	AGAATCTGTT
X gene exon L					
100601	CAGGTTCAAC	TGGCAAGCTG	GATTATTACG	AGCCTCTTTG	ATGTTTTTCT
100651	GTAAGTACTT	CTCCAAATAA	AATGTAACCT	CTAAGTTGTA	TTCTTGAATA
100701	TGGAAAAAAC	AAAACAAAAC	AGAAATATAT	TATGTAAGAA	CTTAGAGGAA
100751	AAAAGGGCCG	CCTTCTATTT	TATGATGTTG	GCCCACCACA	TCAGAGGCAG
100801	ATGCTGGTGG	TATGGCAGTA	GAGGTTGAAC	CTTCCCACCA	ACACCCCGTT
100851	ATGTGTTGTT	GCTGTGTGAC	AGATGGCAGC	AGAGGGGCAG	TCTGACAGAA
100901	TGGCGTCTCA	CATGGAAGTG	TGTATGAAGC	AAAGGTGTGT	CACTGAATTC
100951	CTCCATATGG	AAAAAATGG	CACCCACTGA	CATTCATCGA	TGCTTGCTGA
101001	ATGTTTATGG	AGACAAAACA	GTGGATGTGA	GCACAGCGAG	GCAGTGAGTG
101051	GTGTGTTTCA	GCAGTGGCGA	CAGTGACAGT	TGTTACCTC	CACTGGTACA
101101	GAATTTTGCC	AGCAGGAAAT	GCAGATTCTT	GTACATTGTG	GGCAAAAATG
101151	CATAGCTAGC	TGTGGTGGCT	ATGTTGAAAA	ATAATGTTCC	GTGGCTGAGA
101201	ATCTGCTCAA	GGAAATAAAG	TTATTGTAAT	CATTATAATA	ATATTATACA
101251	TGTGCTTTCT	ATCTATTGTA	GTTTACATGA	AAATAAATAG	GAGGCATTAC
101301	TTTTGGTGTG	ATCTGTATAC	AGGACAGATA	TGTAAAAAAT	ATTTCTGGAA
101351	GAGAAAATTT	TTGTTTTTCAC	AGTCTCACTC	CCTGCAGAAC	ACAGGTGAGG
101401	TACAGTAGGA	TAATTCACAG	AGCCTTGTTA	GCACCAGGAA	CCTCTCAGGT
101451	TATGTAGTAG	ATCACATTTG	CTACAAACTA	TGGATATGCT	ATTATTCCAA
101501	CTTAAAACTG	TTTTAGAACG	GGGAGGGCAC	TATTCAGCTT	TCTTGTTCTC
101551	GGATTAAAGA	AAGAGAAGGA	CTGTAGATTT	CAATAATTTT	CCCTAAGTCT
101601	TGACATTAAA	TTGCATGTAC	AAGACCTTCA	CCTGGCTGAT	CTGATGCAGC
101651	TTTACAGTGC	ATTAAGTAAT	TTAGCCAGAC	TGTGTATTTA	CGGTATATAG
101701	ACGTTTGTGT	GTTTTTGTCA	ACAACAAAAA	AAAGGAATCA	GCAGAGATTA
101751	AATGTCAAAA	AATGAGAATA	TAGAGAAGAA	GCCCACTAAA	GCTATAGTTT
101801	GGCATCTAAG	CAACTGGCTA	GATTTACAAA	GAGATTCAC	CTATAAATTA
101851	CAGGACAGCA	ACCTCCAATT	TTATGGCCAG	TTGTACAAAG	AAGCAGTTTG
101901	AAACAAGCTA	AGACTATTGT	GGTTTGACTA	CATTTGATTG	AAATATCCAG
101951	AGTATGGTCC	AGAGTAGACA	CAGAAGAAAT	GAAATGTGTT	TACATTGTCT
102001	CAAAAATCAT	TCAGAGTTCT	CTGGATGGCT	ATAGGGAAAC	TCATCTAGTC
102051	CACACTGTAT	TCATCATACT	GAAGCACAGA	TGAAACTATC	TATTTCTTAA
102101	AGGGCAAGTA	CAAGATAGTG	TTTTTATAAT	GAACCAGTAC	CTTTCTGAAG
102151	GAAAGTAAAC	ATGCATTTGG	GAAACAATGG	GTCAGTCTTT	ACAATATTTT
102201	TAATGATCAC	AGAATTTTTTA	GGCTTTACAT	TATTGTTTCA	GCATCACAGA

Fig. 1-39

102251	AACAGCAATG	AACAAGCAGC	TTCTGGGCTA	CAGGAAGTAC	TTTTTACTAC
102301	AAGTGCCACA	CGTCAACACC	ACACAGTAAT	AATCCTGTTT	CTTTTAGACA
X gene exon 1					
102351	ACACCGATTT	CAGGATGGGC	TCCATCAGTG	CAGCAAATGC	AGAATTTTGT
102401	TTTGATGTAT	TCAATGAGCT	GAAAGTCCAG	CACACAAATG	AGAACATCTT
102451	GTATTCCCCC	TTGAGCATCA	TTGTAGCCTT	GGCCATGGTC	TATATGGGAG
102501	CAAGAGGCAA	CACTGAGTAC	CAGATGGAGA	AGGTAAGTTA	TGCAAGTAAA
102551	TACAAGCTCA	TTTTGATCCT	GGTTAACAGA	ACAAGTTATC	CATGAAGATC
102601	TTTGAGACTT	TCTCCCCTTA	AGGGGCCAGC	TGCTGTACAT	TTGCCACTGG
102651	ATTTGAACCT	GGCTAGCAGA	AGGACATTGA	GCCATGAGGT	TTGGATCTGG
102701	AACATACTTT	TCACTTATTG	CTTTTCACTA	CAAAGGGTAA	CAACAGTTTC
102751	TACTAAGGAG	GAGATCTCCT	GCTTCAGTTT	ATATTATCTC	ACAAACCTGA
102801	CTCCTTCCAG	ATAAAATGAA	CAAATTTTCA	TGTATAAAAG	ATGAAACACT
102851	CAGAAATCAG	GAGTCACAGT	TCTAAGTACA	GTATGGGTGT	AGCTGGTTTC
102901	TGGATGGAAA	AATAAGTGAA	CTAATTGGAA	GATCCTATCA	AAAAATGTTT
102951	AGAGCAGCAC	ATGCAGTAAA	AAAACAAACA	AACAAACAAA	CAAAAAAATA
103001	CCACACAAAT	TTCAACCTCG	AATGAAACTT	CTCAGTTCAG	CCATTGGTTA
103051	TTTCAAGCCC	AGAATTTGAA	CACAAAATCC	AGAGACTCTC	AGTGAACCTT
103101	GCATACTTCA	TTTCTTCTTC	TGCTACTTCC	ATTTGCAGGC	TCTTCACTTT
X gene exon 2					
103151	GACAGCATTG	CAGGACTTGG	AGGAAGCACT	CAGACAAAGG	TACAGAAACC
103201	TAAGGTACAT	TATTTTTCTC	TCACATTAC	TTTTTTTTTT	TTTCCTGAAA
103251	ACTTAAACT	GTTCTGACTG	TGCTTCCAAT	AGGTCCAGCC	CCTTCCCAAA
103301	CCCTAGCTAA	TGCTCTCAAC	ACATGATATG	CAAATGAAAA	ACTAAAATTT
103351	GTTCTAAAAA	AAAAAAAAT	AATGACAAAA	AGAAGGCTCA	TTTCACATGT
103401	TGCACCAGAA	AAAGTGATAG	GATAGTTGAA	GGACATTTTG	AGCACCAGGA
103451	TACCTTCCTA	CATTGATAAG	AACCTGCACA	CTTGTAGGGC	TTGCTGGAGG
103501	ACCACACATG	AACCATGTGT	GCTTTTCTCC	TTGGTCACTT	GATACATTTG
103551	GAAAGATAAC	ACAAGCCATG	CTCCAGGGC	TGTCCTCATC	CACTTGGGTT
103601	CTCCAAGCAC	AATGTGGGGC	TTGTAAAGGA	CAAGAAGATT	TTTCCGTTTC
103651	CTTTTCTTTT	TCCTTTCCCC	CTTTCACTTT	TTCCTTTCCC	CCTCACTTTC
103701	TCTCTCCTTT	TCCCCTTCC	CTCTTCTCTT	TACATTTCCC	ACTCTCCTCT
103751	CCTCTCCTCT	CCACTCCACT	CCACTCCTCT	CCTCTCCTCT	CCTCTCCTCT
103801	CCTCTCCTCT	CCTCTCCTCT	CCTCTCCTCT	CCTCTCCTCT	CCTCTCCTCT
103851	CCTCTCCTCT	CCTCTCCTCT	CCTCTCCTCT	CCTCTCCTCT	CCTCTCCTCT
103901	CCTCTCCTCT	CCTCTCCTCT	CCTCTCCTTT	CCATTCTATT	CTTTTGTCTA
103951	GAGCATTTAG	ATGGTTATGT	AGAACAATTC	ACAAAACACA	ATCAGACAAA
104001	TCACTCACAT	TTTCTGTTTC	TTATCACCAA	GACTGAGTGT	CACCAAATGC
104051	TATCAGTTGT	ACATGCTTAT	ATAGAACATC	TCTCCCATGG	AGCTTTTAGA
104101	CTCTAATGTA	TTTTGTTTGC	AAATGTCTGA	ACACTGTGTG	TTTTCTTACG
104151	TGATCTGTAC	TTTATAAATA	GTTGTCTTTC	TAGTAAAATA	AGCTAACATT
X gene exon 3					
104201	TATACCTTTT	TTCTCTCTCT	TCAACAACCC	AGTGTGGCAA	ATCCGTGAAC
104251	ATCCACCTAC	TCTTTAAAGA	ACTCCTCTCT	GATATTACTG	CATCAAAAGC
104301	CAATTATTCA	CTCCGCATTG	CCAACAGACT	CTATGCAGAA	AAGTCACGTC
104351	CTATCCTACC	GGTGAGTTGT	ACAACAGAGT	GATTTTTTGC	TAGATCCTGT
104401	ATAAACCCAT	AATCCAGGAG	TACTGCCCAG	AGTATCTGTT	AATCCAACCTC
104451	ACCTCAGCGG	TGTGGACTTC	CACAGCTTTT	CATTTGACAT	TCTCAAAATA
104501	AAACACACAA	ATATTCTAAA	TCAAATACAT	TTTATCTTTA	AAAATAGAGA
104551	AAAATGCTTC	AAAAATAAGG	ATTTTATTAT	AACAAAACAG	TTGCTAATGG
104601	ATGCTAATGG	ACCTGAAGCT	GTTTTTGGAT	TGGTATTTCT	TCAAGAAAAT
104651	ATTTCAAGCAT	TTCTACTACG	TAATCTTATC	TGGTAAAGTA	ATAAAAATCT
104701	TAAAGATCTT	AACATATCAT	GCATCGAAAT	AATTTTGCTG	GCCAGTTTTT
104751	AACCATTTTCG	TCCAGGAAAT	AAGCCATGAA	AACAGTCTAA	TAGCATAATT

Fig. 1-40

104801 ATAAAAATCA TGGAACATTT TAACTGCATT TTATTTTCACC TTCACAGTCT
 104851 TTTTAAAAAC TGACTTGGTA GCTACAACG TTGTCTTTAC AGATTTACCT
 X gene exon 4
 104901 AAAGTGTGTG AAGAACTGT ACAGAGCAGG TCTGGAAACA GTGAACCTCA
 104951 AAACAGCATC AGACCAAGCC AGGCAGCTTA TTAACCTCTG GGTGGAAAAG
 105001 CAGACAGAAG GTAAGCTCAG AGGAGAGTTT ATAATATACT TCCTTGTTAC
 105051 TACTTTACCC AAACAACCTT TGGAAAGACT ATTCCTTCCA TCTCCATTAA
 105101 TGGATATTTT CTGTGGAAAC TGATGACTCT TGCACACTTT TTTGTGTGCG
 105151 GTGACAGTGA ATTTAAATAT ATATGACAAA GGCAGGGATG CCACTGTGTG
 105201 CTTTCTGTGT AAGGAGACGA TAACTCATGC AAGATTGGTC CCAGCTTCCC
 105251 TACAATATTG GCATCATTTT ACAAGCATAT GCTGGATGGA TAAGAAATGG
 105301 GCTTCCGTGG AAGAAAATAA TGTGGCCACT AAGTTGGTGT AAGAAAAGGA
 105351 ATGATTAAGA GTGTATGTAC ATTTATCAGG AAAAAGGTGG GAAGAAAACA
 105401 AGAATCAAGT ATTAGAAGGA AGCACAGTGA GAGGCAGAAG ATCGGTATCC
 105451 CTGCTTTGCT TTTCACTTCC TTCTGTTCCA TGCAAGTCTT TTTCCAAGGA
 105501 CGTTTGAGAT ATTCTGGGG ATGTGTGTGA ACATTCAAGC CTACATGCCT
 105551 CCTTACAGAA ATGCCTGGTT AAGGGTTAGT TGTCTGTAT GAAATCACTC
 105601 GTGAACCTGA ATTCCACATG CCATCATTTA AAGAACAGGA AGTCAACTCA
 105651 AGCTTGCTGG TTGACATCTA AAACAAAACA CTCCTGCAAT GAAAACAAAA
 105701 CCCACAAAG CAGCACCTC CAATCCCTTT GCCTCATACA TGCAAACCAG
 105751 ACAGACTGTG TCTTAGCACT CACTGCTTTG CTTCTTCTT ACAGGACAGA
 X gene exon 5
 105801 TCAAAGATTT GCTTGTATCA AGCTCCACTG ATCTTGATAC AACGCTGGTC
 105851 CTCGTTAATG CCATCTACTT CAAAGGGATG TGGAAAGACAG CATTTAATGC
 105901 AGAAGACACT CGAGAAATGC CCTTCCATGT AACAAAGGTA GGGGACGTGG
 105951 TCACCGCTTC TGGGCAGGAC AGAAAGCCAT CAAGGGTGCG ACATACACCA
 106001 TCCTACAGTC ATTGGTCCAT GGTCTTCTG GGGCCCTCGC TGACAGGGCA
 106051 TGGGGCTGAG CCCAAGACAG GCTGGCAAAA ATTGTGTCTG ACCAGGCATC
 106101 CAAAGCACAC CTGTAGACAA GAGAGGAAAA TGGAGACACA GCTTGAGGAT
 106151 CCAGCCCAGT TCCTCTGAAG GACTTGACAC TCTGCCTGCT TCAAGAGAAA
 106201 CTGCCCCCTT CTCACATTGT CTCATGCTTC TGTTTTGCAG GAAGAAAGCA
 X gene exon 6
 106251 AACCTGTGCA AATGATGTGT ATGAACAATA GCTTTAATGT GGCCACACTG
 106301 CCTGCAGAGA AAATGAAGAT CCTGGAGCTC CCATTTGCCA GCGGAGACCT
 106351 GAGCATGTTG GTGCTGTTGC CTGATGAGGT TTCTGACCTG GAGCGGGTAC
 106401 GGCCCTGGCA GGGGAAGCCA ACTAGTTCGG AGTTCAGTGG GAGCTGGCTG
 106451 CTGTTAGACC TTTGGCTCTG CTCTCGCTCC TTGGCTGTGC TGTGCTGGCC
 106501 AGGCAGGGGA GCACAACAGT GGCCAGGTG CTTCCAGGCG CTCAGGCAGA
 106551 GGTTGGCCTC TAAGGAGAGC CCTAGCCTCA ATGTTATTAA ACAAAGAGTA
 106601 CAGCAAAGAA TACAAAGGTA AAGGAGCGTA GGGCTGCTGT AATGTTATAG
 106651 AAGGGCACGT ATGGGCAATT CTTTTTATTG AGAGGCAGTT TCATCTGGCC
 106701 TCTTATATAA ACTCTTCAGC AAATGTTACT AGAATTGATG AGGTTCAATA
 106751 ATCCCTAATA TTTTGTACAA TATTCTCATC AAATATTTTA AATAAGCTGT
 106801 TCTCAGAATA CCAAAGTAGA TGCAGAAATA TTTGTGTTTG TTTGGTACTA
 106851 TCCACTGTAT ATAAATTGTC ATGGCATTTT TTTTTTTGCA ATCTCTTTCA
 106901 CCAGCTGACC AATCTGCTAT GTAGTGAAAT TGCTTTATTG TTCTGTATGA
 106951 GACACGAAAA TATTTGTACA GAAGGGGATG TGTCAGGTGG AACCATAATA
 107001 AGGAGCACTG AAGAGGAAAT ACTAGAGAAA CAAATGTTAA AATAGGAAGA
 107051 TGTTGATAGG ATGCACCTTG GGAACTTTT TATTTTTTTG TAAAATAATA
 107101 GTCTTGATTA AAATGAACGA TGGAAAGAAG TTGCATTCTC ATCACAGGCA
 107151 TTTTATTCTC TCCCTCTCTT TTCAGATTGA GAAGACAATT AACTTTGAAA
 X gene exon 7
 107201 AACTCACAGA GTGGACCAAT CCCAATACCA TGGAGAAGAG GAGAGTGAAA
 107251 GTGTACCTGC CCCAAATGAA GATTGAGGAA AAATATAACC TCACATCTGT

Fig. 1-41

107301	CTTAATGGCA	TTGGGAATGA	CTGACCTGTT	CATCCCTTCA	GCCAATCTGA
107351	CTGGCATTTC	TTCAGCAGAG	AGCTTGAAGA	TATCCCAGGC	TGTGCACGGG
107401	GCCTTCATGG	AACTCAGTGA	AGATGGCATT	GAGATGGCAG	GCTCCACAGG
107451	GGTGATAGAA	GACATCAAGC	ATTTCCCTGA	GTTAGAACAG	TTTAGGGCTG
107501	ACCACCCATT	CCTCTTCCTG	ATCAAACACA	ACCCAACCAA	CACCATTGTC
107551	TACTTTGGCA	GATATTGGTC	CCCTTAAAGA	GAGAAAGAGC	TGGCAATAAC
107601	ACATACCTTC	CCCTCAGAAA	CAAAATCCCC	TTACCGTAGT	ATTATAGCAT
107651	AATCTTATCT	CTTTCATAGA	AAAGACATAC	CCGCAGGAGA	GGAGACAGCA
107701	CGAAGCACAC	TTACTCCTTC	CCTTCTTGTA	TTAATTTTCAG	AATGGCTTGA
107751	TATGAGCAAA	GACTGAGCCA	ATGAGATGGT	GAGAATGAAG	ACACCTATCA
107801	GCCATTAAGG	TGATAAGTGA	TTTTCACCCA	AGGAATAAAT	AGTAAGAATG
107851	ACCCTAAGTC	CTTGGGAGCC	CGTTACATAG	AAAGCAATAA	GCTTTGCTCA
107901	TCCCATTCCC	TGGTAACATA	CTGCTGACAA	ACCCACGTTA	CCATTCTGTA
107951	AACATGGGCT	TTGAGATCTC	CAGTCTAGAG	GGGATGTTTG	TGGAAGAGTT
108001	TCTGGTGTGC	AGATTATTGA	TTTGTGATTA	TGTCAATTTT	ATTTTTCTTT
108051	ATTTGGTAAT	TGGGCAATGG	TATACATGTT	CACATCAGT	GGAGTTGTCC
108101	TCTCACCATA	AGTCCTCTCA	CCTAGTTCCTG	AATTTCTTGC	AGAGGTTTTT
108151	CAAAGTCCTG	AAGAGTCTCC	CTTCCATTCC	AGAGAAGGGA	AATAGATCCA
108201	GTTTTGCATA	GGTGCAGTTA	TGCCTTTTCT	CAGAGTGCAG	ATTCAAAGCC
108251	TGAACCATAG	AGATCCAGAT	GATTCTTATG	ACCCAGAACT	CAGTGAGATC
108301	CACTGGGCGA	AAGAACTGTC	TAAATTTTTG	TTTAAAACCT	TGGAAGACAC
108351	TTCAAATTTG	AGAACACCTT	TTTGGTGAAA	AATCCTGAAA	GTGTTGTAAA
108401	ATACTTCTTC	TAAGAAACAA	ATTAGAATCC	TATTTTTTTT	CTGTCTTCTC
108451	TTCCTACGTA	TAGATTGTCA	ACTGCAGATG	TGGATCCTCT	GGCTCAATAT
108501	TATATTCTGT	TTTCATTCTA	ATCACCCATT	ATTGATTTAG	ATACATACAG
108551	TTGATTTTGT	TTTGGTTAAC	ATAATAAAAAG	AAAACCACAA	ACAGTTTTCA
108601	TGTAAATTAT	ATTAGCTTTC	TGAACCCACAC	ACTCTTAAAA	ATATCTTTAC
108651	ATTTTAAACAA	CTGTGAGTAA	AACGTGATTT	AGCAGAAAAA	TGTATTCTTA
108701	GAATGAATAA	AGCATGCAGA	TATGAAGTTT	TTCAGGCATT	TATGACATTT
108751	TTAGGAGTAC	CTGTTTTCAA	GAAGAACTTC	ACCAAAGACC	TACAACCAGA
108801	GTTTGATTCT	TCTCTGTATT	TCAGATGACA	AGAAGTACCG	CAATAGAATA
108851	CAAAGTTATT	CCTATCTATT	TTTCTGTGCC	ATTCCAACAG	GCATTAAAGA
108901	TGACCTGGCA	ATTTTTTCTG	GTAAATATTT	CAAGGAACAA	CTATTCTAAC
108951	AGTTTTACCC	TTTTTATACAG	AATCACAGAT	TCATAGGAGC	TGGAAGAGAC
109001	CTCACGGGAT	CATCTAGTCC	AACCCCATAT	GATTTTCATCA	TTTTTATATGA
109051	TGAAATAATC	TGGAATTCAT	ATAACTTGAA	AGGCATAAGA	AAGGTTAAAT
109101	AGATCAACAG	CTACTAGGCA	AAGCATTTCC	CTATGCAGAG	TCTTGAGAGG
109151	AGGAACTCTG	ATGTTAACAT	CGCCTATTTT	CACATTAGTG	TTACCACTGC
109201	AGTGTCATG	ATAAAAGGTG	ATCTGTAGAG	TAAAAACAGC	TGGTGCTACA
109251	GGTATGACAC	CCACATTTTT	TGTAGATTAT	CAGGATACTC	ACAATACAGA
109301	CACAGCTGTT	TTTCAATGGT	AAAACCAAAC	ATTTTACCAA	GTATACTTTA
109351	TTTTTTGCCT	TTAGAAATGG	AAGTAGTGAG	AAGAACAGTT	CCAAGGTAAG
109401	AGAAATATCA	GCATCTCAAG	GTTTACCATC	AGTAGTTTAT	TCATCTTTCA
CR1L					
109451	CATCTCTTAT	GTCCATAGAA	TCATAGAATC	ATAGAGGTTG	GAAAAGACCT
109501	TAAAGATCAT	CAAGTCCAAC	CATATCCTAA	CCATACTACC	CCAACCTTAA
109551	CAACCCTCTG	CTAAATCAGA	AGCAGTTGAT	CCACTCTGCT	AAATTTAAAA
109601	GCCAGTTCAC	TTAAACAATA	AGAAAACCTAG	AGGAAGATTA	CATTTGCAAG
109651	CTACTCTTCT	ACGATTAATA	GACTGGAAAG	TGCATAAAGT	ACAAAGATAT
109701	GCCTCAATGA	TCTGAAAAAC	AGCTGAGGTC	AAAATGGAGA	AATGGGGAAA
109751	AAAATTGAAG	GTTTCTTGCT	TGCAAGCAAA	TATAAAGCTT	CCCCTTTCTC
109801	AAAAAGAAAA	ACAAGAGACA	GGAAAGAGTG	GAAATTCAGC	AATACTGAAC
109851	AAAAATTGCA	ACAAAATACT	GATGGCCAAG	CCCTGGCCAC	CACTGACCAG
109901	GCAGGGGGCA	GAACATACAA	AGGGCAGGAT	AAAAGTGTTT	TCCATGAAGG

Fig. 1-42

109951 GGGTGGCAGG CCTGGTGGGT GGGATGATGA ACAAATAAAA TACACTTTTA
 110001 AAACCTTCCT GTGGCTCCAG GCATTTTTGC CCCAGCCTAC CAAAGGCTAT
 110051 TAGCATTTTT ATTTTCTGGA GTATTAAGAC CCTGTTTCTT TGACAGACTA
 110101 CTGTGCAGCA ACTGACAGAA GGTTTAGTGG GTAAGTCACA GGGGATAAAA
 110151 TGTTTCAGCAT AGACCAAAGC AAAAAACATAA TGTCATGATG GGTGATCAAC
 110201 TGGCTAACAG GTTGGGCTCA AAGGATTACA GTTACTGGGG TTACATCAGG
 CR1 GG
 110251 CTGGTAGGCA GTCACTAATG GGGTTCTGCA GGGCTCAATT TTAGGGCTAG
 110301 TTCTCTTCAG TGTTTTCATC AATGACTTGG ATAAAGGACT TGAAGTCATA
 110351 CTAAGCAAGT TCATGGATGA CACAAATTGG GAAGTGCCAT TGACTCCCTT
 110401 GAGGGTAAAG AGGCCTTACA GAGAGATTCT GACCAATCAG AGAGCTTGGC
 110451 AATCATCAAC TACATAAAGT TTAACAAGAG CAGGTGTCAT ATTCTGCACC
 110501 TGGGATGGGG CAGCCTTGGC TGTGTGTACA GACTGGAGGA CAAGAGGCTG
 110551 AGAGCAGTCC TGCCCAAAGG GACCTGGGGG TTCTGGCTTA CAGCAAGCTG
 110601 TATCTGAGCC AGCAGTGTGC CCTGGCAGCT CCAAGGGCCA ACCGTACCCT
 110651 GGGGTGCACC AGGCCAGCA CTGCCACTGG GTGAGAGGAG GGGCTGTCCC
 110701 ACTGTGCTCT GTGCTATGCA GCTGCACCTC CAGCACTGCA TACAGGGTTG
 110751 GCTGCCACAA CGTAAGAAGA ACACAAAACCT ATTAGAGAGC ATCCAAAGAA
 110801 GGGCTATGAA GATGGTGAAG GGTGTGGAGG GCAAGATGTG TGAGGATCAG
 110851 TTGAGGTCCC TGGGTTTGCT CAGCCCAGAG CAGAGGAGCT GAGGGGAGGC
 110901 CTCATGACGG CTGCAGCTCC TCACAAGGGG AGTGGAGGGA CAGTGCTGAG
 110951 CTCTGCTCTC TGTGACAGCA TGGGGCTGTG TCAGGGGAGG GTCAGGTTAG
 111001 GGGTTAGGAA GAGGGTGATG AGGCCCTGGA ACAGGCTCCC CAGGGCAGTG
 111051 GGCATGGCCC CAAGCTGCCC GAGTTCAAGG AACATTTGGA AAATGCTCTC
 111101 AGATGTAGGG CTTGGATTTT GGGTGGTGCT GTGTGGAGCC AGGACTTGGA
 111151 CTTGATGATC CTTATGGGTC CCTTCCAAC CAGGATATTC TGTGATTCTA
 111201 TGACAAGATG CACTACTGTT CTATGTGTGA GATACTACTG TTCTGTGTGA
 111251 GATACTAGTA GCCAAGGCCT TCACAGGGCC TTTCTGAATG TGCCTCCAGT
 111301 GAATGGTCAC CGGAGTAATC CCCTCTGTCA AACTGAGAT ACACATCTCT
 Y:OV 1 HOMOLGY
 111351 GTCACCATCT GTGACAGGCT AAGGCAGCAG TGCAGGCAAC AATGTCAATC
 111401 TCTTCAGAAT GGCACAGCAC TGCTGCAGAA AGGGGTCTGG TACGCTGTGA
 111451 GCTTCTGTCT GAAAAACCTT GACCAAACAC TGGTATTCTT TGGACTAAGG
 111501 AAGCAACATA ATTCCATAGA ACAACTGAGT GGGAAATCAC CACTGATAGC
 111551 TATGTCATCA AGTTCTGCAA CAGCAACTAA GAAATCACTG GCAATCACTG
 111601 TGGGCAAGAC AAACACTAAA TGGTCAATAA GCTCCCTGCT ACTAGAAAAA
 111651 CAGTGGAAC ATAAATGAGA ACAAATCTC TAGTTGTGCA AAGGTTTTTG
 111701 TGGTAGAAGG AGAGACTTTG TTCTATGAGT TGACCTGGAC TTCATATTCT
 111751 TTTGGAAAGG ATCAGATGTC AAAGAGTCTG TTAGTTTAGG GACAGGCCCA
 111801 CAGTGAAATA CCTGGTAAAG CAAATAGCAG CTAAGTCTTA GCTGACCTCT
 111851 TTCATGGGAT AAGCATTGTC AAAAAAAGGA CATGTCACAA CAACACATCC
 111901 TTTTGTGTTT GTGCAGCATT ACACAGCTGC GCTGGACAGC GTAATCCATC
 111951 AGCTATCCCA GAAAGCATTT CACATACAGG AAGGTTTGCT TAATTTTGCT
 112001 AGACTTCACA ACAGATCTAA ACTTGATAAG TAGACTACAC AAGAAGTCCA
 112051 ATATTCTGAT GATTCTGCAC TGATGACTGA CCACGATCCA ATTTTTCACT
 112101 TACTGTGGAC TGATTTTTAA ATTCTGCAAC TCGCTTTAGA TTAACCATTC
 112151 ATTTGACAAA AAGAAAAAAT CCAACAGCAA CAGTTGGCTG GGATGTATAT
 112201 TAACTTTTTC TGGAGGAATC TGCTGCGCCT TCTCTATCAC AAAACAAAAA
 112251 TATTCCTCTC AGCACTGAGT ATATTTAACG CAGAGATATT TTGAAAGCCA
 112301 TATAATTACT AACAACATTA GTGCTCTGAA TTAGCTATTA TGACACAAC
 112351 GTAGTATCTT TGTAGATCCT GAGTTGTAGG CTGTCTATGA TGGCCCAAAC
 112401 ATATGATTCA GGCAGATGGT ACACAAATGC CCAGGGAGCT CTCCTATAGC
 112451 AAGCTGTAGC ATGTTGCTAG ACAGTTTGAT AGTAAAAGGA TTTAAGACAT
 112501 AATCAAAAGG TAGAGGAGAC ACAGTACAAC TTGTTGATA ATCCTTTGAC

Fig. 1-43

112551	TTTTGAGCTG	TCAAGTATAC	AACCACGGAC	CATTGCAGTG	AGTATTAAAG
112601	CCTGTTTGAA	CAGAAAACAT	GCTGATTGCT	AGCCTTAAGC	AAGAAAGGGA
112651	GAAGGGGCAG	CAGCCACAGA	AACATCTTGC	AGTGTGAGGA	GTGCTCTAAA
112701	TTGTGTGATT	AAAGATATTC	ACCATGAACA	GACACATTCA	GTCACTTGAT
112751	ATGTCTTCCA	CCAGCACAGA	TACCAAAATG	GAAGTCACGA	CAGTGGTGAG
112801	TAATTTACAT	ATTGTTGAAG	CAAGAGAATA	GCTCACTCCC	TTTATAATAG
112851	GTTTGATGTG	ATGGGCTACC	AATAAGAGTT	AAGGCCTAAT	GATCTTTACT
112901	CAAAAGTATT	GCTGCTGCAT	AGCAATGTCT	GCACCAGACT	GGACTGGGCT
112951	ATAGATGGTA	TCATGTAACA	TACTAGTTGT	AATTAAGTGT	ATCAGACAGA
113001	CTGAGGTCTT	CATTATTAGT	ATTGCTCTAG	CATCTTCAGC	TGAACAAGAC
113051	TAATGAGGAC	TCTATTAGGC	AGAAAAGGTAT	GGACTATTCA	GAGGCTGTTT
113101	ACTTTCACAG	ACAACAAAA	GGGTAAAGGA	GTCCACCTCT	TTTCTCCAGA
113151	AAACATAATT	TGTTCTAGAC	AATTTTCAGAG	GCATTTTGTA	TATTGACTTT
113201	GGAGTTCTGT	TTTAAAATCA	GAGCATACTC	AGAGGTCAAA	GTAGTTTGTT
113251	TGTTGCCCAT	TCTTTTATTT	CAAAGGATTT	ATGAGATTGC	TTTATGCTTG
113301	CTATTGTATA	TTATGACTGT	CCTGCAGACC	ATGAATGTTT	CACCTGATGT
113351	GGCATGAAGT	TACTTGTGAA	CGATCTGTAA	GAATGTTCTT	TGAATGTGCA
113401	AAAGACACAT	TTTGAACCTC	ACATCTGGTG	CTGTGACCTG	TTTGAAAAGA
113451	ACAACCAAAA	TCAACATTCA	AAACTAGCAG	TGAGTTCGAA	TACTTCTCTT
113501	GTAGCTTCTG	ACTGGAGTCT	GAATATCCTA	ATATCTGAAT	TTAAAAAGCA
113551	ACAGAAGTCT	CTTCTCTGCT	CAACCTCTTC	TGCGACAGTA	CATCTTTCTT
113601	CAGTTCTGTA	TTTTTTTTTT	CTTTTAATAC	AGATGCTCTG	AATATTGCTT
113651	TCAAAATTAA	TTTGGATTCA	TACAGTATGC	TTGTTGATAC	TTTCCTACTG
113701	ACAATCTGCA	CAGACCATGT	TGGCACACAA	GGTCCCTGAG	TTAGACTGCT
113751	CCAGCAATGC	TAGACTGCTC	TGCAAAATGC	TTTATTTTTT	GCAATTCAAG
113801	CTGTAAGTGG	CATCAGGCAC	AAGAACTAGA	CAATTACATA	CAAGTTTTCA
113851	CTGTAGGTAT	CCCTATTATT	TGCAGAGGAT	TTGGACTAGA	TGGTCTTCAA
113901	GGGTCCCTTC	CAAATCAAAT	GATGCTTTGA	TTCTGTGATT	TTATGAAAAG
113951	TTGCAGTAAG	TACAGGGTGG	GCATAACACA	GCAAGGAGTC	CTGAATGTAC
114001	TGCATTTTTT	ATGTTCTCAG	AATGGTGACT	GCTAGAGGAA	TCTGGACTGT
114051	CAGTACTCAT	AGAGGAAAAA	AAAAAAAAAA	AGGAAATTGA	CTTAAATTCC
114101	TTAGAGACAT	TGTGTACAAC	TAAATATCAC	ACTTTTTTTT	TTTTGCTTTG
114151	TTTCACTAT	CTGTGCCACA	GTATTTGGTT	CTGTGCTTGA	ATTATACTTA
114201	GTGTTCAAGT	TTCAGTGAAT	AGCTTTTATC	ATTTTGTGTT	CAATCTTATC
114251	AGTATACTCC	ATCCTTTTCT	CCAAGGTGCC	ATATGATATC	CTTCCTTCTG
114301	GAACTTTAT	TTAGAGACTT	CTTTCTTTCT	TTCCCTCTTC	CATTCTCTCT
114351	TTCTTTAACT	TTTTCCCTTC	TCCTTTCTTT	TTTGTCTTCT	TTTTTTTTCCC
114401	TTTATCTTT	CTTTCCTTCT	TTTTTCCTTA	TTTCTTTTTC	CTTCTTTCTT
114451	CCTTTTTCCT	TTCAATTTCT	TTTTTCCTTC	CATTTCCTTC	TTTTTTCCTT
114501	CCATTTCTTT	TCCTCCTTCC	TTCTTCTCTT	CCTTCTTTTC	TTTCTCTCTT
114551	TCTTCTTCT	TTTCTCTCTC	TCTTCTGTCT	TTTCTTCTCT	TCCCTCTTTT
114601	TTTTTTTTTAA	TTTTAATTTT	TATTTTTTTT	TTGTAAATAA	AGGACTTCAA
114651	CCAAGTAAAA	GTGTGTTTCT	GACACTGAGT	TCCATCCATC	ATTCAGTTTG
114701	GCAACACACAG	AATAGGCAGC	ATGGGGTGTG	TCATGACATT	ATACAGGATA
Y EXON 1					
114751	TATTTCAAGG	AGTTC TGCAA	GGCTGTACCA	CGTACAGCTG	AGAAGCTGTA
114801	CTCTTATCAT	CACAGGTGAA	GCTGATAAGG	TAAGCATTTT	TTTTGGTTAT
114851	GATTCATGTT	CTAACCCATT	TTTTAAAATG	ATCATAAGAC	TTACAAGAAT
114901	ACTGATGGAA	CTTTGTGGTT	TGTCATCAAG	AACAGTCAAG	AAACAAATGA
114951	TTAAAGGATG	ACTTCTTTAA	AAATCTATTC	TTACCTTCAC	ATTTCTGTTC
115001	TGCATTACTG	TACTGTTTCA	CAGCCTGCCA	CATATGAAGT	CAAAGTGTTA
115051	GTACAAAGTA	AAGCTATGTT	TACTAATTCT	GTAACACTGA	GAAGCTGGCA
115101	CTGTACTGAG	ACACCCTTTC	TTCTTTTTCA	TTGATGCCCT	TTGTTTCTGA
115151	TTTAGAAATT	AAATGCAGCA	CTGAATTTGT	TTAAATTCAA	GACTTAAGCT

Fig. 1-44

115201	GAGTTGCATG	GTCTACCTAA	CATACTTTCT	GAATGAAGTT	ACTGAATGCA
115251	GCATGGTCAG	GTATCAACAA	CATACTGCAA	ATTAATTTCT	GTGTATTCTA
115301	AAACAAGCAA	ACGAACAAAC	AAAAAACACA	CACACACATG	CACAAAGCAT
115351	TTGCTTCAAC	AGTATGTTTT	TTCAACAAGA	TCATACATGG	AGCTTAAAGC
115401	TTAAAATATA	ATACTCTGTG	GGAGTAGTAA	ATAATCCAGA	AGTTTGCCCT
115451	CTATCACCTG	CACATGTGAT	TCAATTAAGA	GAGAGATGGA	ACACATGAAT
115501	GTGTTGATTC	CACACAATGA	AACATTGCGC	AGAATATCTT	GGATTTCCCC
115551	TGTACTTGGG	AAATTCTACC	CTAGGAAGAT	TCTCTCTGCT	TGTGACAAAA
115601	TGGGAAGATA	TAAGGACCTT	AATACTGCAC	TTTACAGCAC	TGTTGTCTAT
115651	TCTATGTTGT	CTTCTTTACT	AAAGAGTTTT	TTTTTTCCTT	TACTGTTAGA
115701	TAAAATGATA	TGTGTTGAAA	CTACAGGGAA	AATTTTCATTA	GAATGTCAGA
115751	AAAAAAAGAC	AGAAAAAATG	TTTAAATACT	GACGATGTGA	AGTATCTGCA
115801	AATGAAACAA	GCCTAAACAA	TCACTGCCCT	ATTAAAAGGT	GGATTTTATG
115851	AAAAAGGTGC	CAATAAAATT	AAAAGACAAT	TTTGAAAAGT	GAGGTATAAT
115901	TAAGTCAACC	AAGAATGGAA	CATGTAATAT	TTAACAGACA	TTTGTCTATA
115951	AGCAGATGAG	TTTGGTAAAT	CATTATCTCT	TTCTATCACT	GTGCTTCCAT
116001	TTCCCTAATC	TATTTTTTAAG	AAGGTAATGA	TGAGGTTTGA	GACCTCTGAT
116051	AAAGTGGTTG	GTATAAGAAT	CCAGCTTCCA	TTTACATGAA	GGTGGAGTAA
116101	ATCCAGAAAA	AAACTTGCGG	TGTTTTTCCA	GACCTACCCA	CTTTATATTG
116151	TCAATAACTG	TAGTTTGGAT	CACAGAGGGC	TGATCTGTTA	ACTGGTCTTA
116201	AAAGTGATGT	TAAAACTAT	AGTGAAAAAC	CTGGTCTGGA	GTCTCAGGTG
116251	AATGAAGACT	GAGAACAAAC	CTATGTGTGT	TTTCTTTCCT	GCACAAGATG
116301	GGAACGATT	GTCAATGAGC	TTCTTTCAAG	GCAAGTCTTT	GCAATATTTT
116351	CAACACAGTA	CACATGTACA	GAGGATAACT	CAAGTTTCAA	ATAAAACAGT
116401	TGCCAGCCTA	CACATAACTG	GTACCTATAC	AAGATTTTGA	TTGCTCACAA
116451	ATCCAAGCAC	ACACCTGCCT	TTTAAATCCA	CACTACTGAA	TTCTACTTAC
116501	TGAAAATAAG	CTGTGCACTG	TGTACAGAGG	TTCAAGTGCA	CTGACTTCCT
116551	TGGAATACAA	CTAATACATT	TTAATCTTTT	CTTTAGACAA	CGATTTTCAGA
Y EXON 2					
116601	ATGGATTCCA	TCAGTGTAAC	AAATGCAAAA	TTTTGTTTTG	ATGTTTTTCAA
116651	TGAGATGAAA	GTCCATCATG	TCAATGAGAA	CATCTTGTAT	TGCCCTCTGA
116701	GCATCCTTAC	AGCCCTGGCC	ATGGTCTATC	TGGGGGCAAG	AGGTAACACT
116751	GAATCTCAGA	TGAAGAAGGT	AAGTTGCTTA	CATTGGTGTA	AAGTGGACAG
116801	TGGACTCTAC	TTCTGCTTGT	CATTCTTCT	AAGTAATAAC	ATATTATCTA
116851	CTCATGAGGC	TCTCACATAT	TTTAATTAC	CAGATGGATC	ATGAATCAGG
116901	GAATTGTATT	ATTTTTTTCT	AAATTCTGAC	ATCTTCCACA	TAATGTGATC
116951	ATTTTTTTTC	CATATTTTTT	ATTTTTGTAT	TAAAAAGATA	AAACCCTGGA
117001	GGAAAGGAAG	AGGGAGAACA	TTATTCGCAG	TGCATAATAC	ACAACATAAGT
117051	TAACATCCAG	ATGCTCACTG	AAAAAAATAT	AATCTAAGCA	AATAGTGCTA
117101	TTTCCAATTT	CTCAGAAGGT	GACATGAAGT	ATGAACCAGC	TGCAAGCTTA
117151	CTTGACGCCT	TTTAGTTTCAT	CTAATCTAGC	ATTTGTTGTG	GGTTTTTTTT
117201	TTGTTTCTGT	TTTTGAGCCA	ACAGCTCTAC	CCCGAACATC	ACGTGTAAAT
117251	TTTAAATGCA	TACCATTTTT	GGTCACGCTT	GTGTTTTTTT	CTCACTGGCA
Y EXON 3					
117301	TTTTCTCTTG	CAGGTTCTTC	ATTTTGATAG	CATTACAGGA	GCTGGAAGCA
117351	CCACTGACTC	TCAGGTAAAG	ATGTAACCTC	TCTCCTTTTG	TTCCTATTTT
117401	CTCCTCAGGA	CAAACTAGA	ACTACTCTGC	CTCTGCTCCA	AGCAGTTTCA
117451	GACTGTCAAA	AGTGGTGGCA	ATGCTCTCAA	ACCAAACAGA	TCTGTGGAGG
117501	GAGGAAAAGA	GTGTGTAAC	CACTCTTGTT	TAAAGCCAGG	GAAACTGACT
117551	TGGAGATAGG	TTTATTTGTC	TGTTTAATGC	ACCATCATCA	GACTAGGTCT
117601	GTGGGTGAAT	TCCACCATGG	CCTGACTGTT	AGTGATGGGG	ACAGTCCTTT
117651	GGGGTCTGAT	TTTCTAGATA	AGGAGAAACT	AATGTGACAT	ATCATCTTGT
Y EXON 4					
117701	TTTCCTGTCA	TCACCTCAGT	GTGGCTCTTC	TGAATACGTC	CACAATTTGT

Fig. 1-45

117751	TCAAGGAGTT	ACTCTCAGAA	ATCACCAGGC	CAAATGCTAC	ATACTCACTC
117801	GAGATTGCTG	ACAAACTCTA	TGTTGACAAA	ACATTCTCAG	TTCTTCCGGT
CR1 GG					
117851	GAGTTGAAGT	GTGACTTAAC	CTCAGTGAGA	TTGCCCCACTG	GGCTCACCTG
117901	GGACTCGGCT	CTACTGTGAG	CCACAATGGG	AATTGGTTTG	AGCCACAGGA
117951	TGAGTTCAAA	CCTTTCTGTG	GCTTTTAGGA	GGAGGCTAGG	CTCACACAAG
118001	GTATAAGGGC	TCTGGAGATA	TTCAAGACCC	ATTTGGACAC	TTTCCTGTGC
118051	AATCTATAAT	GAACCCCTGC	AGGGGGTTCA	AATTGATGAT	CTCCAGAGAT
118101	CCCTTCCAGC	CCCTGCGATT	TTGTGACTCT	GTAATATATG	CCCATGCAGC
118151	AACTGCTACA	GGGAGCAATC	AAAATTGCTG	CTCATTCACT	AAAAAATGTC
118201	TCTTAATGAA	AAAGGTGATT	TGTAAGGGAG	GAAAATGACT	TGAAAGCGTG
118251	ACGACTGAAA	TTGACAAAAA	TATTTTGTTT	ATCTTTTCTA	AAACTAGACA
118301	TAAAATAACT	CACTTAAAGA	AAGTTTGGT	TTTGAAATAA	AAAACAGGAA
118351	TGTAAGAATA	CACAGTTCAA	AAGAAAAGGT	AGGCACGAAG	ATGAGGAAAT
118401	GAGTATTGTC	TGTCCTTAAT	AATGTTTGCA	GAACAGAAGG	TTTTATGGTA
118451	AAATGAAGAA	AATATTTCAA	AATTTTAACT	TAGAATCCAA	TCTGAAGACA
118501	AAAGTGACAA	ATCTAAATAT	GTGAAGTAGC	CTGTGCCAGC	TTTAAGATTTC
118551	AGTTACAGCA	AGAGAGCTGT	TTGACTTGTT	CAAGTGTAGG	GATAGAAGTT
118601	TCTTTTAAACC	ATCACTTTCC	ATTTTCAATA	TTTTGCATTT	CATATTCTTC
118651	TATTTTAAAG	TTCTCAACAG	TCAAACACAA	TTCTTCTGCT	TATAGGAATA
Y EXON 5					
118701	CTTAAGTTGT	GCAAGGAAGT	TCTATACAGG	AGGAGTGGAA	GAAGTTAACT
118751	TCAAAACAGC	TGCAGAAGAA	GCAAGGCAGC	TCATAAACTC	CTGGGTGGAA
118801	AAAGAGACAA	ATGGTAAGAA	GTAAAAAAT	AGCTGATATT	TTCTCCTACC
118851	TACTGTAAATC	TACGCTCTTG	TCTTCTTCTC	CTCAAAATGT	GAAGAAAGGC
118901	ATATCAAGGA	ACAGCACTTG	ATTATTGCTA	TGAAAGCAAA	CTCCCATAAA
118951	ACTCACCATG	CCCTTCATTG	CAGGCATTCA	TGCAAACCAG	ACAGGCTGTG
Y EXON 6					
119001	TCTTAACACT	CACTGCTTTG	CTTCCTTTTC	ACAGGACAGA	TCAAAGATTT
119051	GCTTGTATCA	AGCTCCATTG	ATTTTGGTAC	AACAATGGTC	TTTATTAAACA
119101	CCATTTACTT	CAAAGGGATA	TGGAAAATTG	CATTTAATAC	AGAAGACACT
119151	CGGGAAATGC	CCTTCAGCAT	GACAAAGGTA	GGGACATGGG	CACTACTACT
119201	GGAAAAATTC	AAGATAAAGT	GATCCCTACT	CACATTGTCT	CATGCTTCTG
Y EXON 7					
119251	TTTTGCAGGA	AGAAAGCAAA	CCTGTGCAAA	TGATGTGTAT	GAACAATAGC
119301	TTTAATGTGG	CCCACTGACC	TGCAGAGAAA	ATGAAGATCC	TGGAGCTCCC
119351	ATATGCCAGC	GGAGATCTGA	GCATGTTGGT	GCTGTTGCCT	GATGAGGTTT
119401	CTGGCCTGGA	GCGGGTACGG	CCCTGGCAGG	GGAAGCCAAC	TAGTTCGGAG
119451	TTCAGTGGGA	ACTTCTGACT	GCTTTTCAAG	CTTTGGCTGT	CCTCTCACCC
119501	CCTGGCTGTG	CTGTGCTGGC	CAGGCAGGGG	AGCACAAACAG	TGGCCCAGGT
119551	GCTTCTAGGT	GCTCAGGCAG	AGGTTGGCCT	CTAAGGAGAG	CCCTAGCCTC
119601	AATGTTATTA	AACAAAGAGT	GTAGCTAACA	AAACAAAGGT	AAAGGAGCCT
119651	AGGGCTGCTG	TAGTCCTGCA	GCAGGGGATG	TTGGTATATG	CAAGTTATCT
119701	CCATCAAGTA	CTAGAGACAG	ATATGCTAGC	AGGATTTCTT	TTTTTACTTT
119751	GAAGAAATTT	CAATTCCCAG	AGATCAAGTA	GAGTTCAAAC	ACTGTTACCA
119801	AGTCATAGGG	ACCAATTCTG	TTGATGACCG	TTAATAGATT	TTTTTCATGA
AT-RICH					
119851	GTCACCCCTC	CAAATAATTA	AATATAATTT	TTTTTTTGTA	AATATGAGGG
119901	ATATTTTAAA	TGATCATTTT	TCATTGAATG	TAGAAAAAAA	TAGGAAAAAT
119951	ATAACAAGAA	AACAAACAGC	ATTTCTGAGA	GGTTAGCTGC	AAACATCTGC
120001	AAATGAGCAA	AAATTTGATT	TGACATAATC	AAAAACTGAT	TTTTTCAGAAA
120051	AGCATTTGAT	CTGTTGGAAG	AATTTTCAGA	TGACAAAGTT	TTGGAGAGCT
120101	TCATCAAGAC	AGATGATATG	TAGGCTATAG	TCAGGAAGAA	GCACAAGGGA
120151	TAAACAAATA	GATTTAAGCT	TAAGCGTCAC	TTCTGTTTTG	CACACAAATA

Fig. 1-46

120201	AATGAAATAA	ATAGCAACAA	GTGGTATTAA	TACAGTTGGT	ATGGCCACCA
120251	TACTCCTGCT	TTATGCATTT	CATTGTCTCT	TCTCTTTGCA	GATTGAGAAG
Y EXON 8					
120301	ACAATTAACT	TTGACAAACT	CAGAGAGTGG	ACTAGTACCA	ATGCAATGGC
120351	AAAGAAGAGC	ATGAAAGTGT	ACCTGCCCCG	CATGAAGATC	GAGGAAAAAT
120401	ATAACCTCAC	ATCTATATTA	ATGGCCTTGG	GAATGACTGA	CCTGTTTCAGC
120451	CGTTCAGCCA	ATCTGACTGG	CATCTCTTCA	GTAAGATAACC	TGATGATATC
120501	TGATGCTGTC	CATGGGGTGT	TCATGGAAGT	CAATGAAGAG	GGCACTGAGG
120551	CGACAGGTTT	AACAGGGGCA	ATTGGAAACA	TCAAGCATT	CCTTGAGTTA
120601	GAAGAGTTTA	GGGCTGACCA	TCCATTCTCT	TTCTTCATCA	GATACAACCC
120651	AACCAATGCT	ATTCTATTCT	TTGGTAGATA	TTGGTCGCCC	TAAAGAGAGA
120701	AAGAGCTGGA	AATAATGCTT	ACCTTCCCCT	CAGAAATCAA	ACCTCTTTAC
120751	TGTAGTATTG	TAGCATAATC	TCAATGCAAT	ATTTTATCCA	AGTGGAAGAGC
120801	CTTCAATATC	TAGGGAGACA	TTCTTGAAGA	AGCATGTGAA	ATTTTCAGATC
120851	TTTATATGCA	GGAATTTATT	CTCAGCTTAG	ATTCAGGATT	CATATCCAAG
120901	GTGTACATAT	TCCCAATGTG	CCTGAATAAC	TTGGGAAACA	GGGCCAGTGC
120951	TTTGGGGTTT	TTTTTGTGTT	TTTGTGTTTT	GTTTTTTTGG	TTTGGTTTGT
121001	TTTTTCTG	TTGGTTGTTT	TTTTTTTTTG	TGTGTGTGTG	TGAGATTCTG
121051	CCATTGTTAT	TGAGAATCTG	GTTTCTCTAT	AGGAGTTCTC	TGAAATAAAC
121101	ACAGCTTTCA	GGAAAATCCT	GGTCCTTTCC	ATTGAATTAG	CTGGGCAGTC
121151	ATCCTAGAAC	TGATGCCTGG	ACAACCTGCA	GATGAAATTT	TTAACCTCAG
121201	CAGACCATT	GTCTTCCAGT	AATCCATTG	GACTTATTCG	TGCTGCGTAA
121251	CATTTTTCT	GAGGGAGCAT	ACAGAAAGTC	TACCATTCT	TCTTAAATCA
121301	TCTCCAAACA	AAACATCTTC	CTGATTGATA	TTATTTCCCA	TTTTTCATCCC
121351	AGTGACATGT	CACTGATTTT	GTGAATGTTA	ATTAATGGTC	TTTCTATTTA
121401	TTCTAATAAA	AGCTTCGCAA	ACAAAACATG	TCATTACCTA	TTCTGGGTTA
121451	CTGTACTACA	CAACCTGAAA	AATACGATAT	AGCGGGTAAT	AATTATTGAC
121501	AGAGGTGACT	AAGCTGGTAT	GTGGATCCTA	TTTTCAAAAT	CAGAATGTAC
121551	CCATATATGA	GGTCACTAAA	TATTTTAAGA	TTAAAAAAA	AAAAACAAC
121601	TGGGTTTAAT	CAAGGTAAAC	CCTATAGCTC	CTACTCTTCA	ATTGAGCTTC
121651	TCCCAATACA	GCATACCAA	TAACAAAATT	TTTTGAATTT	ACTGAATTTT
121701	CAGAGAACTT	TTACAGAAAT	CCTCTAAGGG	TCCTCAGTAA	ATACATGAAG
121751	GTGATGTGTA	CAAGATAGAA	TTTTAAATA	TGAGAAAGGT	ATTAAGAGGT
121801	AGACTGCTTC	AGCTTTCTCA	TGCTGACAAG	AATCACATGA	AGAAATCTTT
121851	CTATTGCCTC	ATGTGATATT	CCTCTCGAGA	TGTTGTATGC	TATTTACCGG
121901	TCTTTAGAGG	AAAGGGTCTT	TAGGTTATAT	ATTATCCAAT	TATAATGGTT
121951	ACTAGTGTTA	ATGACAGTTT	TCTGCTAGGA	TACACATGCA	GAATTGCAAA
122001	TTACAGTATT	GGTACTGAAA	ATGTAGCGAT	ACTTCAGTAA	TTCAGAGCTG
122051	CCTCAAACAC	ATGCCATGTC	AGCATTAACT	ATAACTTGAA	ATGATGACAT
122101	TAGCAGCAGT	GAAACACGTT	TCATACCCAC	TAAAAATGGG	AGAAATGCGA
122151	TTACTGGTCT	TCCCAAGAGG	GTCAGAAGGA	TTAGGTACAG	TTTGCACAAG
122201	GATTCAAGTA	AAAAAAAGTA	TTTCAAGAGC	TATGAAATTT	CAAGTTTTAC
122251	TGTGTACATC	ATGTTATTTT	CCTCTTACAG	CTGAAATCAG	TCAATACAGT
122301	TTTGCTACAA	CTAAAACCAA	CCAACCAAAC	AAACGGCAAA	GGAAAAAAGG
122351	CAGGACTGGT	AAAATATTGT	CCTGAGCAGC	AGAGTGTGTA	AGGTTACTAA
122401	GCAGTTATAA	TACTGTGTTG	GAAGTGAAT	ATGCAGCTAT	GTCACCTGTC
122451	ACTTTCTAGG	TACAATAACA	GTAAAAGTAC	CCACATTAC	TATGGAGGTA
122501	TTTAATATAT	AGCGTAAACT	AAAAAAACAG	CTATTCAATT	GTTTGATCTT
122551	TTTAAAGCAA	AAGATGAAGA	AAATCAAGGC	AGAAATGATA	AATGAATTTT
122601	AAAACTATA	CAAAAGAGGG	TATTCAAGGC	ACAGAGTCCA	CCTAATGTCT
122651	TAAGTGTGAA	ATGGAAGCAT	TTGACTTGTT	TTAAAAAGGC	CATTAGGTGT
122701	CACTAAGGGT	AAAAAGTTAC	GTTTATCAGC	TTTCAGAAAG	AGGATGGCAT
122751	TCCAAAGGTG	CCTCTGAGCT	CTGAAGCCCA	GCAAGGGATA	AGAGAAATGA
122801	ATCCCAAGTC	CAGCTATTGT	CCAAAAGTCC	TTTTTGTTC	CTGATACCAT

Fig. 1-47

122851	GACTGAAGTT	GTCATGTCAA	GACATTGCCT	TCTGTCTGTT	CACTACACCT
122901	CATGTTCTCT	CAGTGCTGTG	TTCTTAGAGA	GGCAGTACTG	CTAGTGGTCC
122951	GCGGAATGAA	AACAGCCAGG	TGTAATCACA	CTCTTTTGAA	TGCCTCATGA
123001	GAAGTGCTCT	CTGGACTAAG	TGTAACTTTC	CTTCTCACAT	CATTTGGAGA
123051	AGGGACCATC	ACAGAATCAT	TTGGAGACCA	CCTGCATCTA	TTCTGCACTT
123101	CTCTCCACAT	TTGCCTATCG	TCTTCTAAGC	AAACCGAATC	TATGGCTGAA
123151	GTTACAAGAC	TCTGCATGTG	GTGTCACAGT	CACCAGAGGC	AGAGGACTCA
123201	AGAGAATATC	CTGGTCCAGA	GCTACTCTGG	GATCTCAAAA	GTCACTTGGG
123251	AAAGCACAGC	ATGTTGAACT	AGACTTTGGT	GTATTTTTC	AATCTTTATC
123301	AGTCTACAAA	ATATCAACTG	GACATGGAGC	AGTGGTTCAC	TTTGGTGT
123351	CCTGTGGCTC	ATGATCTAAG	ATTCTTCAGT	CTGGAAAATA	AACTGCAGAG
123401	ATTACTGTTG	AGGAGCAGCA	AGTGTCAAGT	TGCTCAGCAA	GGGAAGGAGA
123451	CTGAGGGCAA	GGGAAGGAGA	CCGTGCCAGT	AAGGCTAGAA	GGGCCCATA
123501	AGGGATCAAG	TGCTAAATTT	TCCAATATTA	TAGCCATAGT	TTAGTGATTT
123551	CCAGAGAAAT	ATGTAGTGAT	GTGGTAGGCC	AAAGATCAAA	CCAGAAGGCC
123601	CCAGAATGGC	AACAGGTGAT	GATCCCTGTG	GCACATTCTC	TATCTTGAAG
123651	TAAAACAGCA	TGGATCCATA	TAAATACATT	CTTGCTCAAC	AGCAGAAATA
123701	ACAAACAGTA	TTGCTTACTT	CTACGAATAT	CCTAACAAAA	CATGTAGATC
123751	ACAATGCCAC	TGAACCTTTG	TATGGATGGA	ATCTGTGCAA	TCTGCCATGA
123801	CTAAAGCTCT	GTCCAAAAC	GCACAACTTA	GGGTGCCAG	CTTCTGAAGG
123851	GATGTGAAAT	TATCTGTGCT	ATCTCCTTTT	CCCTTCTTGT	GTTAGCTCCA
123901	GTAAACTCTA	TTTTAAGAAA	TACCTTACAG	TTTCTGATTG	TCTTCTTTAC
123951	TGGTATCCAA	AGGGACTCCT	ATGCATTACA	GGGTCCTCCA	GCACAGTGAG
124001	GTTCTTGGCC	TGGTGCAGGC	ATGCAAAGTA	GCTTAGGCAC	GGGTCACAAT
124051	CAAGATACTC	AGTTTAATGC	TTCTCCCAAG	TGATGGGATG	CTAAAATCTT
124101	ACATGATTTT	AAAAGGAAAG	TGTTCAAAC	GTGGAAGAGA	AATCCACTGA
124151	CAAATAAGAA	AGATACAGAA	AATAAAGTTA	GCTATAGAAG	ACATGGAACA
124201	GGAAATAATG	TTAGAACTCT	GAGGGCAAGA	GTAAGCCTTA	ACAGTAATGA
124251	CAAGCCTCAC	TGGAGGAGCT	CTTCCACATA	CGTTGTTCTC	ATGGGCCCAG
124301	GAGTCTGTAC	TGGAAATTGG	CACACAGTTT	GGGTACCGGG	GGCGATCTTT
124351	GTGAGATGAA	GCCCTGAACT	GCCCTGGGTC	AGCTGCAGGT	GTCTCTGTAA
124401	TGGATGAAAA	CAACTCACTG	TGCACCAGAT	TTTCAGCTAA	TAAGAAAAGC
124451	ACATGGCATC	TCTGCTCAAA	CAGAATCATA	GAATTGCTCA	GGTTGGAAAA
124501	GACCTTAAAG	GTCATCGAGT	CCAACGCAA	CCTAACCAAC	TACCCTAACT
124551	CTAACACCCC	TCCTCTAAAT	CATGTCCCTG	AGCACCACAT	CCAAACAGTT
124601	TTTAAACACA	TCCAGGGATG	GTGAATCAAT	CACATCCCTG	GGGAGCCTAT
124651	TCCAGTGCTT	AACAACACTT	TCTGTAAAGA	AGTTTTTCCT	GATATCCAAC
124701	ATAAACTTAC	CCTGGCACAA	CTTAAGGCCA	AATTTAATTA	GAAAATGTAG
124751	CAGCACTGCA	ATGTAGCAAA	TGTAATTACG	AAAAGGTGGT	AGCTGCTAGG
124801	GACAGAGGAC	ATGCAAATAG	ACCCAAAAGA	TAAAGACTAG	AAACAGAAAA
124851	AGGGGACATG	TGAGAGGTAT	GTTTGGAGAA	ACATAACAGA	GGAGATATTT
124901	GAAAGGAGAT	CTTGGGAGCA	CAGGCAAAGA	CACAATCCTG	GGAGGAGGTG
124951	CTCCATGCTA	GAGGATGTAC	CTCTAAGGCA	CCGCAGCCAT	GGGCAACCAA
125001	CACAGGTCAG	CGTCATCCTG	GTGAGACTGT	ATCCCACAAG	CAGCTAACAC
125051	TGGAGTAGGG	ACAGCCCCGA	AGAAGTGCAG	CCCAGGCAGC	ACACTAGAGC
125101	AGAGAAATCT	AGTTAGCAGC	AACCACTGGC	AGACAGAAAT	GATTATATAG
125151	ATTACATACT	GACCCTAGCC	TCTTACACTG	CCTACTGCAT	CACTGAAAGG
125201	ACTGGGAAGA	AGAGAGTGCA	ATAACGTAGC	TGAAACTAGG	AGGAAGGCAA
125251	GGAGAACTGA	AGCTGACTAG	GGAAAAGGGG	GATTAAAGGT	TTAAGTGTCT
125301	ATTCCATAGT	TTGCTGGTTT	GTTTTTTGTC	AATTCCTGAA	TCAGTAATTT
125351	TTATGTTAAT	TAGCAAAAAA	TTACAAACAC	TCCCCAAGTC	AGGACTGTTA
125401	CCTACAACAG	AAGCTCAGAT	CAGCTGAGCC	TTAGTCTTTT	GGTCCCTCCC
125451	TAGGGAATGC	TGTATGTGTC	TCTCTCTCCA	GGCCTGCTCA	AAATTGACCT
125501	CAGACCCAAA	CTTTTGCTGA	ATCTCCAGTA	CCACCTCTTT	TGCTCCTAAC

Fig. 1-48

125551	TAGATAACAA	AGCCCTGAGC	GCTTTGCTTT	TAGCAAAGCC	TTTAAGTGCC
125601	ATTACCAACT	GCACCTGGAG	CCTTTACCTA	CCCCATGGA	CCCAGGCTCT
125651	ATATTTAAGC	TCTGCCCTGA	ACCTTCACTT	CTTTCCTGTC	CTAAGTTAGA
125701	TGTACTAGTA	TGGTGTGTAC	TATGTCTCCA	GTTCAAACAC	AGCTGTGCCC
125751	ATACCTGGCC	AAGGACTCCT	AGTATGACCT	GGGCTGTGCC	TTGCTGCTAA
125801	GGACCTGCTG	GGTGATTGCT	GGACCTGATC	CTAATCCTGA	ATTAAGAAAT
125851	GATTTCTTGG	CTTGACTGGA	TGTGCCCTGT	GGTATGATAC	TGCCTTATGA
125901	TTTGGACTCT	TGTTTGCAGC	TGTGCAAATC	CCTAAGGAGC	CCAGTCTCTG
125951	GCCACCTGGA	ATCTTGTAC	TACCAAACCT	CCTGAGGGAC	TGGTCTTGCT
126001	CTGGGTTCTG	ATCTCTGGAC	AGTACTCACC	CTTTACTCAG	CCCAGGCTCC
126051	CAGTTAAGCC	CCTTTCCACC	CTGCCAGGCT	CTCCGCTCCA	TCCCTAGCAG
126101	GGGCTCTCAT	GACAGTGTGA	CCCCCCTTA	CTCAGGTCAG	GGCCACTTGT
126151	GCCACGTTCC	TTTCCTGTCT	TCTGTCCCTG	CCTTGGCTCT	AAAGCAGTGT
126201	GCTACCATCC	ACAACCACTG	CATCTCTCTA	AAGTAAGCCT	CTCCTGAGCC
126251	CAAGTCTCTG	TAACGAGGAA	GGATGCACTT	TGCTCAGAAG	GATGCGAGGC
126301	TGCTTCTGAG	CTCTGAGGGC	ACTGACCTCC	CATGAGGTAC	ACCCCATACC
126351	CAGGACCACA	ATTGAGCCTG	CTGGAACCAT	CAACTCCTGC	TGGAGTAAGG
126401	CCATAGCAAG	ACCAGCATCC	ACCTCCCTGC	AGCCCTGCCC	TGCCCAGATA
126451	TTGGGCCTGC	TGATCTCAGG	ATGCAGACTT	GCTTCTCAGC	TTGACCTAAG
126501	CATTGCCCTG	TCTTTATGGA	CCCACCTGGT	TAGCAAGTTC	AGTGCAGAAG
126551	GAGGCTGTTG	GCATCTAGCT	AATTTTCCAC	CCACATTACT	GTCTGCTGAC
126601	TCATTCTACG	TCTCTCCCAT	CTTGTTACAA	TAATAATTTG	GGAGATCATA
126651	TTGAAGGTCT	TAATAAAGTC	AAGGCATGTG	ATATTCTCTG	CTTTGCCTTT
126701	GTTTCTAGAA	TAAGCCACTT	CATCATAGAA	GATGAAAATG	CTGATCAGCA
126751	GAGATCTGTG	CTTGATAAAT	CCATGCTGGC	TTTTCTTATC	ACCTTATATT
126801	CCTTCATATG	CCTTGAGACA	CCCAAGGAGG	CCTTGGATCA	GAGCTGTCTG
126851	TAGCAGTCCT	AACTGGTATA	CAATTAGTTG	TACAACAGGT	AGTGATCCGC
126901	ATAATAGTTG	GCGTGAGAAA	GTGGGCCTGT	GCTGTGTCAA	GCATAGAGTT
126951	TGGGTTCCAG	TCCTGTTCTG	CATGGCACAT	ATGCCTGAGC	AGCTGGGTAA
127001	TCTCTGCATT	CCAATTGGAA	GGCAGGGGCC	TGTAGGCAGT	TCCCCTTGG
127051	CATGGGTGAT	TGTACCACCT	GTGTCCTCAT	CTGTGAAGCA	TCATGTTTTT
127101	ATTCAAATAT	CCTTTTGTTT	GACAGTAGAA	ATGAACAGAA	TTGTTTTTTT
127151	TTCTAAGCA	AATTCTGCAA	GAGCTCTGAA	GAACAAGGTG	TCAGTGAAC
127201	TCTAGCTCCA	TAGATAGGAC	TTGCATCACA	TGTCATGCCT	TGATTGGAGG
127251	TCTATCCGAT	ACTGAACAAC	TTGTGGTTCC	CTGAGGGAAT	GTAAGATTAC
127301	TGATACTACT	CTCTCTTTAT	GTTAGCTACA	ATAAATGGTA	GGTTAAGCAA
127351	TAGATACAGA	GTTTGAGTGC	CTTTCTTACA	AGCATCATAG	TGAACAAATC
127401	CACTGGTGAT	CTACCTTTTC	AATAACTACA	GAGAATTGTA	ATCTCTTGGA
127451	TTCTCCTCCT	TCCCCGTTCT	GAAAATGTGT	TCTTTTTTTC	CAAATCAGAA
127501	ACCTTCCTCA	ACCACCCTGA	CTATTCTTTG	GACATTGTTT	TGTTCTTGCT
127551	CCTAAATAGG	CTTTATAATT	TTTGTAAGTG	AAAGGCTTTG	CATGCAGGTG
127601	AGGCTACAAC	TCATTGAGTA	ACAATGAGGA	AGACTGTCAG	ATTTTGGGGA
127651	AAATTCTCCC	ACCCAACCTT	TTGCTAGCCA	GTAAGATGTA	ATCACTGAAT
127701	GTCATGCCAC	AAAGACCATA	CCAACATCAG	ACCACATATC	TACAGGAAGC
127751	TTTAAGGAAT	CATTGACTGT	ACAGTGAAGG	GTAATCAAAA	TTAAAATGAA
127801	TGTGAGGTCT	GATACGAGAT	ATCCTCATGG	GAATCAAGAG	CAAAGACAAA
Y:OV-1 HOMOLOG Y HS-III SITE					
127851	TAGTTTTTCA	CAGTCTTGTC	ATGATCTGTC	ACAGACCAAG	GCAGCACAGC
127901	AGGCAACAAT	GTTGGTCTCT	TCAGAATGGC	ACAGCACC	TGCAGAAAAA
127951	TGCCAGGTGG	ACTATGAACT	CACATCCAAA	GGAGCTTGAC	CTGATACCTG
128001	ATTTTCTTCA	AACAGGGGAA	ACAACACAAT	CCCACAAAAC	AGCTCAGAGA
128051	GAAACCATCA	CTGATGGCTA	CAGCACCAAG	GTATGCAATG	GCAATCCATT
128101	CGACATTCAT	CTGTGACCTG	AGCAAAATGA	TTTATCTCTC	CATGAATGGT
128151	TGCTTCTTTC	CCTCATGAAA	AGGCAATTTT	CACACTCACA	ATATGCAACA

Fig. 1-49

128201	AAGACAAACA	GAGAACAAATT	AATGTGCTCC	TTCCTAATGT	TAAAATTGTA
128251	GTGGCAAAGA	GGAGAACAAA	ATCTCAAGTT	CTGAGTAGGT	TTTAGTGATT
128301	GGATAAGAGG	CTTTGACCTG	TGAGCTCACC	TGGACTTCAT	ATCCTTTTGG
128351	ATAAAAAGTG	CTTTTATAAC	TTTCAGGTCT	CCGAGTCTTT	ATTCATGAGA
128401	CTGTTGGTTT	AGGGACAGAC	CCACAATGAA	ATGCCTGGCA	TAGGAAAGGG
128451	CAGCAGAGCC	TTAGCTGACC	TTTTCTTGGG	ACAAGCATTG	TCAAACAATG
128501	TGTGACAAAA	CTATTTGTAC	TGCTTTGCAC	AGCTGTGCTG	GGCAGGGCAA
128551	TCCATTGCCA	CCTATCCCAG	GTAACCTTCC	AACTGCAAGA	AGATTGTTGC
128601	TTACTCTCTC	TAGACCCCCA	AGTCAAACCA	ACTATGCAGG	TATGCTGACA
128651	ACACTATGAT	GACAGCCTGT	TCTGATCAAG	ATCTCATTTG	TTCATGGACA
128701	ATTTTTGTGG	CTTGCAGCTG	GTCTTCCATT	GGGAAAGAGT	GTAGTATATC
128751	CTTCTCATCT	GACAGAAAAG	CAGAAATTCT	CATGCTCCAC	ACTTAATCTA
128801	CATTGTTTTA	AACCACCGGC	TACTTCTTGG	AGAGGAAAAA	TGGCTTTTAT
128851	AAGACTCACA	AAACAAAGCT	CTGCAAGTCA	AATGCATACA	AAACTGTTCT
128901	GTAGGTCTGG	AATCAGGACA	CTATGTGGAA	GTCAAATAGA	GCAGCTTTAA
128951	AAAGCCTTTG	GGATCATTCT	CATCTTATAT	TTGCAGCACG	ATACTATGAC
129001	AGTGATAACT	GACATAACTG	CATCAATTTT	CTTGATATTT	TATTTGTCTT
129051	AAAGTACAAG	ACATAGAGAT	GGACGTAAAG	ATGGACATAT	GACTCAGGTC
129101	TGGACAGGTC	CGTGGTCCAT	GTATGATAAA	AGAGATGAAG	GGAAGGAGAA
129151	TTGAGACTGT	CTAAGAAGGG	CTTCAGGGAC	GTTCTGAAGG	CAGATTTGAC
129201	TGAATCAGAT	GTACTGTCCA	AGTCTCATAT	GTAGCAATGG	AAGGCTGATA
129251	TTGGAGAAAT	ATAAAGAAAT	GGCTGTGAAC	TCAAAGTGAC	CCTGAACAGA
129301	AAAGGGATAT	GGAGTTAAAA	TAATGTCACA	GAAGTGAGGT	TTATATGATA
129351	TACCATGGGC	TGCAGAGGGT	CAGAGTGCTC	CACCATGGGC	CTCTCTTGGG
129401	CTGCAGGGAA	CTTCTGTTCT	ACACCTGGAA	CACCTCCTGC	CCTCCTCCGC
129451	ACTGACCTCA	GTGTCATCAG	GGCTGTTTCT	CTCACATTTT	CTCACTCACC
129501	TCTCCCAACT	ACCATTGTAC	AGCAGTTGTT	CTTACATATT	GCTCCTCCTG
129551	AGGTACATCT	AGCATCGATC	ACTGGCTCAG	CTCTGGCCAG	TGGCAGCTCC
129601	CTTTTGAGGA	CACGGGACAG	CTGCTGGGCT	CTGTTACACAG	AGGCCACTCC
129651	GGCAGACCTC	CACTACCACA	ACTTGTAGTG	TAAATCCACT	ACAACCTTCT
129701	GAGCTACAGA	AATGAAATGG	AGACCCTCTC	TGCTATGGGA	TACAAAAGAG
129751	GAAACGTGGC	GTTTAGCTCT	GGCTCACTGG	TACACCCAAC	CACAGGGTGA
129801	GAAGCAGCCT	GTTGTTATTC	ACTACTCTTA	GGACAGATTA	TGGTGAATTG
129851	TTAATAAAAG	CATTTCTTCA	TAACATCCAA	AGGAGGAAAT	ACAATAAATT
129901	ATATTTTTTTA	TTAATTAATT	ACACATGCTT	AATTATATAT	GGCATGGTTG
129951	CTTTGGAAGA	ATCTTGTCCT	TACTGACCAG	ATCTGCTGTT	TGCTGAGACA
130001	AAATGGCTGA	CAATTTTGGC	CATGGTGGAT	ACCTTCCCCC	TTTTCTGTAG
130051	CATTAGGACA	GAAGTTATTC	TGGAGCCTGT	CTGACAAGTT	AGACTTGATA
130101	CCTTTAAGTA	TTTGGAAGTG	TGCTTTTCAT	GCTGGATGTC	ATCTCCAGAA
130151	CCTCCCTGTC	TGGTAAGCAG	TTCCCTGCCT	TAGTAAGAGC	CGAAACGGTC
130201	TCTCTTTTCC	TTGTTATCTC	ACCAGGATAT	TACAATGTGA	CAGGACTATC
130251	TGAACATATG	CAACCTGCAA	ATTCCAAATA	TATATATATA	TATAAGATAT
130301	CTATACACAA	ATTATTAGTG	TTTGATTGAC	ACCAGATGAC	AGAGAAGTGC
130351	ATCTGAGAAA	ACCTATTCCC	AATCTCCTTT	CTCTTTCTGC	AGACTGACAT
130401	GCATTTTCATA	GGTAGAGATA	ACATTTACTG	GGAAGCACAT	CTATCATCAC
130451	AAAAAGCAGG	CAAGATTTTC	AGACTTTCTT	AGTGGCTGAA	ATAGAAGCAA
130501	AAGACGTGAT	TAAAAACAAA	ATGAAACAAA	AAAAATCAGT	TGATACCTGT
130551	GGTGTAGACA	TCCAGCAAAA	AAATATTATT	TGCACTACCA	TCTTGTCTTA
130601	AGTCCTCAGA	CTTGGCAAGG	AGAATGTAGA	TTTCCACAGT	ATATATGTTT
130651	TCACAAAAGG	AAGGAGAGAA	ACAAAAGAAA	ATGGCACTGA	CTAAACTTCA
130701	GCTAGTGGTA	TAGGAAAGTA	ATTCTGCTTA	ACAGAGATTG	CAGTGATCTC
130751	TATGTATGTC	CTGAAGAATT	ATGTTGTACT	TTTTTCCCCC	ATTTTAAAT
130801	CAAACAGTGC	TTTACAGAGG	TCAGAATGGT	TTCTTTACTG	TTTGTCAATT
130851	CTATTATTTT	AATACAGAAC	AATAGCTTCT	ATAACTGAAA	TATATTTGCT

Fig. 1-50

130901 ATTGTATATT ATGATTGTCC CTCGAACCAT GAACACTCCT CCAGCTGAAT
 130951 TTCACAATTC CTCTGTCATC TGCCAGGCCA TTAAGTTATT CATGGAAGAT
 131001 CTTTGAGGAA CACTGCAAGT TCATATCATA AACACATTG AAATTGAGTA
 131051 TTGTTTTGCA TTGTATGGAG CTATGTTTTG CTGTATCCTC AGAATAAAAG
 131101 TTTGTTATAA AGCATTGACA CCCATAAAAA GATAGATTTA AATATTCCAA
 131151 CTATAGGAAA GAAAGTGTGT CTGCTCTTCA CTCTAGTCTC AGTTGGCTCC
 131201 TTCACATGCA CGCTTCTTTA TTTCTCCTAT TTTGTCAAGA AAATAATAGG
 131251 TCAAGTCTTG TTCTCATTTA TGTCTGTCT AGCGTGGCTC AGATGCACAT
 131301 TGTACATACA AGAAGGATCA AATGAAACAG ACTTCTGGTC TGTACTACA
 131351 ACCATAGTAA TAAGCACACT AACTAATAAT TGCTAATTAT GTTTTCCATC
 NRE: A,B,C regions
 131401 TCCAAGGTTT CCACATTTTT CTGTTTTCTT AAAGATCCCA TTATCTGGTT
 silencer (common site)
 131451 GTAACTGAAG CTCAATGGAA CATGAGCAAT ATTTCCCAGT CTTCTCTCCC
 131501 ATCCAACAGT CCTGATGGAT TAGCAGAACA GGCAGAAAAC ACATTGTTAC
 131551 CCAGAATTAA AAACATAATAT TTGCTCTCCA TTCAATCCAA AATGGACCTA
 131601 TTGAAACTAA AATCTAACC AATCCCATT AATGATTCT ATGTTGTCAA
 131651 AGGTCAAAC TCTGAAGGGA ACCTGTGGGT GGTCAACAT TCAGACTATA
 Ovalbumin exon L
 131701 TATTCCTCCAG GGCTCAGCCA GTGTCTGTAC ATACAGCTAG AAAGCTGTAT
 131751 TGCCTTTAGC AGTCAAGCTC GAAAGGTAAG CAACTCTCTG GAATTACCTT
 131801 CTCTCTATAT TAGCTCTTAC TTGCACCTAA ACTTTAAAAA ATTAACAATT
 131851 ATTGTGCTAT GTGTTGTATC TTTAAGGGTG AAGTACCTGC GTGATACCCC
 131901 CTATAAAAAAC TTCTCACCTG TGTATGCATT CTGCACTATT TTATTATGTG
 131951 TAAAAGCTTT GTGTTTGTTT TCAGGAGGCT TATTCTTTGT GCTTAAAATA
 132001 TGTTTTTAAT TTCAGAACAT CTTATCCTGT CGTTCACTAT CTGATATGCT
 132051 TTGCAGTTTG CTTGATTAAC TTCTAGCCCT ACAGAGTGCA CAGAGAGCAA
 132101 AATCATGGTG TTCAGTGAAT TCTGGGGAGT TATTTTAATG TGAAAATTCT
 132151 CTAGAAGTTT AATTCCTGCA AAGTGCAGCT GCTGATCACT ACACAAGATA
 132201 AAAATGTGGG GGGTGCATAA ACGTATATTC TTACAATAAT AGATACATGT
 132251 GAACTTATAT ACAGAAAAGA AAATGAGAAA AATGTGTGTG TGTATACTCA
 132301 CACACGTGGT CAGTAAAAAC TTTTGAGGGG TTTAATACAG AAAATCCAAT
 132351 CCTGAGGCCC CAGCACTCAG TACGCATATA AAGGGCTGGG CTCTGAAGGA
 132401 CTTCTGACTT TCACAGATTA TATAAATCTC AGGAAAGCAA CTAGATTCAT
 132451 GCTGGCTCCA AAAGCTGTGC TTTATATAAG CACACTGGCT ATACAATAGT
 132501 TGTACAGTTC AGCTCTTTAT AATAGAAACA GACAGAACAA GTATAAATCT
 132551 TCTATTGGTC TATGTCATGA ACAAGAATTC ATTCAGTGGC TCTGTTTTAT
 132601 AGTAAACATT GCTATTTTAT CATGCTGCA TTTCTCTTCT GTCTGAATGT
 132651 CACCACTAAA ATTTAACTCC ACAGAAAGTT TATACTACAG TACACATGCA
 132701 TATCTTTGAG CAAAGCAAAC CATACCTGAA AGTGCAATAG AGCAGAATAT
 132751 GAATTACATG CGTGTCTTTC TCCTAGACTA CATGACCCCA TATAAATTAC
 132801 ATTCCTTATC TATTCTGCCA TCACCAAAC AAAGGTAAAA ATACTTTTGA
 132851 AGATCTACTC ATAGCAAGTA GTGTGCAACA AACAGATATT TCTCTACATT
 132901 TATTTTTAGG GAATAAAAAA AAGAAATAAA ATAGTCAGCA AGCCTCTGCT
 132951 TTCTCATATA TCTGTCCAAA CCTAAAGTTT ACTGAAATTT GCTCTTTGAA
 133001 TTTCCAGTTT TGCAAGCCTA TCAGATTGTG TTTAATCAG AGGTACTGAA
 133051 AAGTATCAAT GAATTCTAGC TTTCCTGAA CAAAATATG TAGAGGCAAC
 133101 TGGCTTCTGG GACAGTTTGC TACCCAAAAG ACAACTGAAT GCAAATACAT
 133151 AAATAGATTT ATGAATATGG TTTTGAACAT GCACATGAGA GGTGGATATA
 133201 GCAACAGACA CATTACCACA GAATTACTTT AAAACTACTT GTTAACATTT
 133251 AATTGCCTAA AAAGTCTCG TAATTTACTG TTGTAGCCTA CCATAGAGTA
 133301 CCCTGCATGG TACTATGTAC AGCATTCAT CTTACATTT TCACTGTTCT
 Ovalbumin exon 1
 133351 GCTGTTTGCT CTAGACAACT CAGAGTTCAC CATGGGCTCC ATCGGTGCAG

Fig. 1-51

133401 CAAGCATGGA ATTTTGT TTTT GATGTATTCA AGGAGCTCAA AGTCCACCAT
 133451 GCCAATGAGA ACATCTTCTA CTGCCCCATT GCCATCATGT CAGCTCTAGC
 133501 CATGGTATAC CTGGGTGCAA AAGACAGCAC CAGGACACAA ATAAATAAGG
 133551 TGAGCCTACA GTTAAAGATT AAAACCTTTG CCCTGCTCAA TGGAGCCACA
 133601 GCACTTAATT GTATGATAAT GTCCCTTGGA AACTGCATAG CTCAGAGGCT
 133651 GAAAATCTGA AACCAGAGTT ATCTAAAAGT GTGGCCACCT CCAACTCCCA
 133701 GAGTGTTACC CAAATGCACT AGCTAGAAAT CTTGAAACTG GATTGCATAA
 133751 CTTCTTTTTG TCATAACCAT TATTTTCAGCT ACTATTATTT TCAATTACAG
 Ovalbumin exon 2
 133801 GTTGTTCACT TTGATAAACT TCCAGGATTC GGAGACAGTA TTGAAGCTCA
 133851 GGTACAGAAA TAATTTTACC TCCTTCTCTA TGTCCCTTTC CTCTGAGAAG
 133901 CAAAATACAG CAGATGAAGC AATCTCTTAA CTGTTCCAAG CCCTCTCTGA
 133951 TGAGCAGCTA GTGCTCTGCA TCCAGCAGTT GGGAGAACAC TGTTTATAAG
 134001 AACAGAGAAA AAGAAGGAAG TAACAGGGGA TTCAGAACAA ACAGAAGATA
 134051 AAACCTCAGGA CAAAATATACC GTGTGAATGA GGAACTTGT GGATATTTGT
 134101 ACGCTTAAGC AAGACAGCTA GATGATTCTG GATAAATGGG TCTGGTTGGA
 134151 AAAGAAGGAA AGCCTGGCTG ATCTGCTGGA GCTAGATTAT TGCAGCAGGT
 134201 AGGCAGGAGT TCCCTAGAGA AAAGTATGAG GGAATTACAG AAGAAAAACA
 134251 GCACAAAATT GTAAATATTG GAAAAGGACC ACATCAGTGT AGTTACTAGC
 134301 AGTAAGACAG ACAGGATGAA AAATAGTTTT GTAAACAGAA GTATCTAACT
 134351 ACTTTACTCT GTTCATACAC TACGTAAAAC CTACTAAGTA ATAAAACTAG
 Ovalbumin exon 3
 134401 AATAACAACA TCTTTCTTTC TCTTTGTATT CAGTGTGGCA CATCTGTAAA
 134451 CGTTCACCTCT TCACCTTAGAG ACATCCTCAA CCAAATCACC AAACCAAATG
 134501 ATGTTTTATTG GTTCAGCCTT GCCAGTAGAC TTTATGCTGA AGAGAGATAC
 134551 CCAATCCTGC CAGTAAGTTG CTCTAAAATC TGATCTGAGT GTATTTCCAT
 134601 GCCAAAGCTC TACCATTCTG TAATGCAAAA ACAGTCAGAG TTCCACATGT
 134651 TTCACTAAGA AAATTTCTTT TTCTCTTGTT TTTACAAATG AAAGAGAGGA
 134701 CAAATAACAT TTCTCTATCA CCGACCTGAA ACTCTACAGT CTTAGAGAGAA
 134751 TGAATGGCTT GCTAAAAGAA TGTCAAATCT TACTATACAG CTATTTTATA
 134801 TTACACTACT AAATACACTA TAAGGCATAG CATGTAGTAA TACAGTGTA
 134851 AATAGCTTTT TACACTACTA TATTATTAAT ATCTGTTAAT TCCAGTCTTG
 134901 CATTTTACAT TTGCAAAACG TTTTGAAATT CGTATCTGAA AGCTGAATAC
 Ovalbumin exon 4
 134951 TCTTGCTTTA CAGGAATACT TGCAGTGTGT GAAGGAACTG TATAGAGGAG
 135001 GCTTGGAACC TATCAACTTT CAAACAGCTG CAGATCAAGC CAGAGAGCTC
 135051 ATCAATTCTT GGGTAGAAAG TCAGACAAAT GGTAAGGTAG AACATGCTTT
 135101 GTACATAGTG AGAGTTGGTT CACCCTAATA CTGAGAACCT GGATATAGCT
 135151 CAGCCAGCGT GCTTTGCGTT CAAGCTTACC AGAGCTGTTG TATGCCTGTT
 135201 AAGCAGGGCA TACAGTCATG AGGCTCTTGA AAAATCTTAA CAGACAAAGG
 135251 GCAATGGAAA ATCGGAGTTA AGGGATGGTA GGGATAAAAT GCATAGAAAG
 135301 AGGTACCACA ATTTTGATT TTTGCCCTAAT GCCTCTCTGC GTGGTTCCCTC
 135351 AATTTTCTTA CTTTCTTCTT CATCTCCTCA GAGCATTCTT TTCCCTCATG
 135401 CTTGAAACAC AGATGAAAGA CTGTGAATTC TAACTGAGAT GAAAACATCC
 135451 ACAACCACAC AACCTCTGGT GTGGAGTCAC ATTCTGTGAA GGCAAAAACCT
 135501 AGGCCACGTA ATCTATGTGT GCAAGCTACG TGTAAGCTAT GTGTGTGACA
 135551 GGACAATGTG AGGAACATAC TATGTGCACA AGGACTGCAG AATAAACAGG
 135601 AGCAAAAGTTT TTGAAGAAAA CAGAGTAAAA TCCTGTTTTT CTCTTTTGT
 135651 ACATTCTTTA CATATATCTC AAATTTCTCT TTTGGTTAGA AGCAAGTAAT
 135701 ATTTATGTTT CTTGGTACTG TTTGGGTTGA AGACCATTCT GGGATAAGAG
 135751 AAATTCCAGT GGTTCCTCCC CTAATCATAA AATGTACAGG TTTAGTTTTT
 135801 TTGTAACACA GAAATCTCTT CATCTTTTAT CTTTGTGTTG GATTCTTTAT
 135851 AGAGAGAGAA ACAAGACTTA CTGACAATAG CAGCAAGAAA ATCAATCTTG
 135901 GAAGAACAAG ATTGCAGTTG CAAAACAAA CCAATGTCCT TGCCCCTACA

Fig. 1-52

135951	TCCTCTTCCC	CATAAATTCT	ACATTCTCTA	TCTACCTTGT	GCTTGCCAAC
136001	ATGATATACG	TAAACTCTCT	TTTCGTATT	ATTCTTAAAG	GAATTATCAG
Ovalbumin exon 5					
136051	AAATGTCCTT	CAGCCAAGCT	CCGTGGATT	TCAAAGTGCA	ATGGTTCTGG
136101	TTAATGCCAT	TGTCTTCAAA	GGACTGTGGG	AGAAAGCATT	TAAGGATGAA
136151	GACACACAAG	CAATGCCTTT	CAGAGTGACT	GAGGTATATG	GGCATACCTT
136201	AGAGATGTAA	TCTAGAATTT	ATGAAGAGAG	TAGACATGTT	GTTATATGAA
136251	CACTGCATTA	GCGTATCTGC	TCATTTGTCT	GCATCTCTTT	CAGACACTGT
136301	GTTAAAAGCA	GGGAATTTTC	CTTATGTCTC	TCTCATCACA	ATATTCCTGA
136351	CATTGCAAAG	CTCCTGAGAA	ATAACTTCAG	ATTCCTCACTT	TTCCTAGGAA
136401	GGTCTTCCTG	GATGAGAACA	ATCAATCATC	TAACTGTAA	CTAGATATTT
136451	CTGCATCTAA	GAATAATCTT	TGTTAAAAC	ATATCTCTCT	TCTCTTTTTT
Ovalbumin exon 6					
136501	TTTTTTTTTT	GGTTCTCCAG	CAAGAAAGCA	AACCTGTGCA	GATGATGTAC
136551	CAGATTGGTT	TATTTAGAGT	GGCATCAATG	GCTTCTGAGA	AAATGAAGAT
136601	CCTGGAGCTT	CCATTTGCCA	GTGGGACAAT	GAGCATGTTG	GTGCTGTTGC
136651	CTGATGAAGT	CTCAGGCCTT	GAGCAGGTAT	GGCCCTAGAA	GTTGGCTTCA
136701	GAATATTAAA	AACACATGGA	AATTTAGCTG	TTGTAAAGCT	CTTTTCAACA
136751	CAGTTATCCT	AAAACATTTA	ACCAGCACAA	ATTTCAATCAT	GATTCAATAT
136801	GTGATTGTTG	CATAGAAGTG	TAGATTTGTC	CCACTGGGTC	CTGCAATAGC
136851	CCATGCTGAG	CATGGCTTGC	TGAAAGAAGT	GCTTTAGAGG	GTGAAAAGTT
136901	TGACACAGCA	GACAAGATGA	TTCTCACCTA	AGCAGCTGTT	ACTGTAGTGG
136951	CTTGAACCTC	AAAGGTCTTG	TATCTCCATT	CCTGTGCACT	GAGGAGCTTC
137001	TTGGAAAGTT	CATATAAGGT	TTACTAGTTC	TAACTATTAT	CTCATTGTTG
137051	GGCACTCAAT	GTGCTTTGTT	CACGTCTTCA	TAAATTAATC	TATCTAAAAA
137101	TTGGATGTGG	TAAAGCAAT	TTCAGAAATA	ACATGTACAT	AATGTACAAT
137151	TATTGATATG	AACAGAACAC	AGGCATAGCA	TATTGTAATT	AGGAGGACTG
137201	TAGTTATTTT	GAATAGGAAA	CACAATGTAA	TAAATGAGAA	TTCATTGAAA
137251	TGTTAGTATG	CTAACTCAAT	CTAAATTATA	AAGATAAAGA	GGCATTTAAT
137301	CACAGCTAGA	TTTCCATCAC	TTGTGACAGA	CAGGCATATG	AATGATTATG
137351	TACAGCTCTA	GGAAAAAAG	TATGTAGGAA	AACTAGTACA	TTTTGATTAG
137401	AAAGTCTGAA	AATGAGGTGC	CTTGATCAAA	GAGAATACGT	GTGTTTGAGA
137451	AAAAAAAAGT	TTGGATAGAG	GTGGTAAGAG	AGAATATATT	GAAATGGTGT
137501	TTCTACAAAC	TGCCATGGCC	AGATTTGTGT	AAGAGACATT	CAGTAAGTAG
137551	GCAAGGAAAG	AAATATTACT	AGGTACAAAG	CAACATTAGT	AATACCAAAA
137601	GAAACCAATT	ATTCCAGATG	CCAATCTCGT	AATAGGGTTA	AGAGATTTC
137651	ACCCCTCTAG	TAGTCACCAG	TGCAACCAGT	AACTTTGCTA	ATTTACATTT
137701	TCTTTTTTTT	AATGGCAGAT	ATAGCTTTGA	ACTGAGTGAT	CATGAAGTGG
137751	TACTGTGTAA	ATAAGATGGA	AGCATACTTG	GGAGCTAAAC	TTCTAGTTTT
137801	TAAAACTCA	AATTCTCTTG	AAAGATCAGT	TCCCAGTCTA	GTAACAGCTG
137851	ATAGTTTAAG	TATCAGTAAT	TGGCTACCAT	TAACAACTGG	CTCCTGAGAG
137901	GTCTTAAATG	TAGAGACAGC	TTTAAACTCA	AAAGCACAGA	GTGATTTTTA
137951	GAATAGATTT	CCCAAGCAAA	GAAAATAAAC	AGGGAGGAGC	TTTAAGGGAG
138001	TAGCCATCTC	ATTATTATTA	TTATTTAAAG	AAATGGCAGC	AAGGCTATAA
138051	AAGAAAAATA	AGACAGAGCA	GAGAAGAAAG	AGTCATGGTA	TGCTTTTCTA
138101	TCTTAGCAAA	ATTAATCTCT	ACATGCCTAG	GAAAAAGCCA	TGACAAGAGC
138151	AATCAGTTCA	AAAGGTGTAT	GCAAAAAAAC	ACATAATAGT	AACTAGTACT
138201	GCATTGCCAG	GAAGGAAGTT	ATGTCGCCAT	TCCATGGATC	TCATTCTCAT
Ovalbumin exon 7					
138251	TTCCTTGCAG	CTTGAGAGTA	TAATCAACTT	TGAAAAACTG	ACTGAATGGA
138301	CCAGTTCTAA	TGTTATGGAA	GAGAGGAAGA	TCAAAGTGTA	CTTACCTCGC
138351	ATGAAGATGG	AGGAAAAATA	CAACCTCACA	TCTGTCTTAA	TGGCTATGGG
138401	CATTACTGAC	GTGTTTAGCT	CTTCAGCCAA	TCTGTCTGGC	ATCTCCTCAG
138451	CAGAGAGCCT	GAAGATATCT	CAAGCTGTCC	ATGCAGCACA	TGCAGAAATC

Fig. 1-53

138501	AATGAAGCAG	GCAGAGAGGT	GGTAGGGTCA	GCAGAGGCTG	GAGTGGATGC
138551	TGCAAGCGTC	TCTGAAGAAT	TTAGGGCTGA	CCATCCATTC	CTCTTCTGTA
138601	TCAAGCACAT	CGCAACCAAC	GCCGTTCTCT	TCTTTGGCAG	ATGTGTTTCC
138651	CCTTAAAAAG	AAGAAAGCTG	AAAAACTCTG	TCCCTTCCAA	CAAGACCCAG
138701	AGCACTGTAG	TATCAGGGGT	AAAATGAAAA	GTATGTTATC	TGCTGCATCC
138751	AGACTTCATA	AAAGCTGGAG	CTTAATCTAG	AAAAAAAATC	AGAAAGAAAT
138801	TACACTGTGA	GAACAGGTGC	AATTCACTTT	TCCTTTACAC	AGAGTAATAC
138851	TGGTAACTCA	TGGATGAAGG	CTTAAGGGAA	TGAAATTGGA	CTCACAGTAC
138901	TGAGTCATCA	CACTGAAAAA	TGCAACCTGA	TACATCAGCA	GAAGGTTTAT
138951	GGGGGAAAAA	TGCAGCCTTC	CAATTAAGCC	AGATATCTGT	ATGACCAAGC
139001	TGCTCCAGAA	TTAGTCACTC	AAAATCTCTC	AGATTAAATT	ATCAACTGTC
139051	ACCAACCATT	CCTATGCTGA	CAAGGCAATT	GCTTGTTCCTC	TGTGTTCCCTG
139101	ATACTACAAG	GCTCTTCCTG	ACTTCCTAAA	GATGCATTAT	AAAAATCTTA
139151	TAATTCACAT	TTCTCCCTAA	ACTTTGACTC	AATCATGGTA	TGTTGGCAAA
139201	TATGGTATAT	TACTATTCAA	ATTGTTTTCC	TTGTACCCAT	ATGTAATGGG
139251	TCTTGTGAAT	GTGCTCTTTT	GTTCTTTTAA	TCATAATAAA	AACATGTTTTA
139301	AGCAAACACT	TTTCAC TTGT	AGTATTTGAA	GTACAGCAAG	GTTGTGTAGC
139351	AGGGAAAGAA	TGACATGCAG	AGGAATAAGT	ATGGACACAC	AGGCTAGCAG
139401	CGACTGTAGA	ACAAGTACTA	ATGGGTGAGA	AGTTGAACAA	GAGTCCCCTA
139451	CAGCAACTTA	ATCTAATAAG	CTAGTGGTCT	ACATCAGCTA	AAAGAGCATA
139501	GTGAGGGATG	AAATTGGTTC	TCCTTTCTAA	GCATCACCTG	GGACAACCTCA
139551	TCTGGAGCAG	TGTGTCCAAT	CTGCCGCTGC	CCTGATCCTG	GCTGGGGTGA
139601	TGGGACAGAC	CTTGGCTGCC	ACTGAGACAT	CTGAGACACT	GAGATCTGTC
139651	TCAACTCAGA	TTTACCCAAG	AACAGATCAT	TGCCAACAGA	ACAAAATCTC
139701	AAACTTATGG	CTAGTGATGA	CAGCAGTCAG	TTGTCCCATC	TGTGACCCAC
139751	CAAGGCTGGC	ATGCTGGAAT	GAGCAGGCTT	TGGTGGCTTG	TAGTTACTGG
139801	ACAGCACCAC	TGACATGGGC	AGGGGAAAAA	CTGAGCATGG	TGTAAATCAC
139851	TGCCTCAAAG	CCACTTCTCT	GTGCCTGCAC	CATGCTTGAA	AGCTCTTCTA
139901	CAGGAGCTGG	GTTTGTTCOA	GAAAGCTTCT	GTTTCTCCCA	TCTGCTTCTT
139951	GTACCTTCAC	AGGGACAGAG	TTAGAAGGGT	ACAGCCATGG	CTGGAAGGGG
140001	CTGACTTTCA	AATGTGCCTA	ATTTTCCTTT	GGTTGCTGCT	GCAGCTGCAG
140051	AAGAAGGGGT	TCAGAAGCCA	AGAGCTTTGA	GATAAGGATG	CCTAACCTAT
140101	GTTGAAGACA	TTTGTGCTGA	CACCTCAGGC	CCCAGGATAG	GACAACCTGCT
140151	GGATTGTGGC	TAACCCACTA	GCTACAGAAC	CTAATTTATA	TTACCAGATT
140201	AGGAAGAGCA	AAAGAACATG	TATTTATAAC	AGGAGGTCTT	CTGTGCTTCT
140251	CTACTAAAAG	GTGCTGTGAA	GGAGCCCA	GTGCAGCAGT	GTATGAGGCC
140301	TGAAAGAGGC	CGCAGCACAC	GAAGAGCCCT	GGTAGGAGCA	GCACACAGAG
140351	GGGCAGGAGG	GCTGGGGGAA	CTGCCACCCA	TGGGGACCTG	TGTGAAGCAG
140401	TGCACTCCTG	AGGGGTGGAC	TGCGTGGGAA	AGGAAAAGAA	AGCAAACAGA
140451	CCTGTGATGA	ACTGTCACAC	AGACTGCAGA	GTGACAGAGG	AGGGCTTGAG
140501	GCAGTGCGCT	TACTGCAGGG	AGTGGCGCTC	CTTCCTCACA	GCAGCGCTAA
140551	CAGCTTGGCA	CCAATATTCA	GTAGTCTGTG	GTGATGCTTT	TTCCAGTTTC
140601	ACCACACAGC	ATTTGCGCTG	TTCTACTTGT	TTTAGCTTTC	CCCCTCCACA
140651	AGATAACACA	TACTTTGCCA	GTCAGTCCCT	AAGACCTTAG	CCTAACAGTT
140701	AGCAAACAGG	ATCTTGCAAA	AGAAGGAAGA	TAACATGACA	CCACCTTCAC
140751	TGGTGTATAA	ATAGTTCAAA	TACTTTCTTT	CACTTTCCCG	TAAATTAGTT
140801	GATTGCAGGT	CAGGAGATAA	CAGGGGAACT	TACTGCAAGA	GAGAAAATGA
140851	TGTTTAATAT	TGTCTTGAC	TTTCTGGTGG	TCTGGGCATG	AAAATGGAGT
140901	ACTCAAATC	CTCAGGACGT	TTATTTTTC	CCTGATTTAT	TCCCAAACCTG
140951	CACTATTTCT	AGGCCATTGG	AGTTCTTATC	AATTAAATTA	TACTTTGGCT
141001	CTCTGCTATC	TCACTCCCTT	TCATCTTCAG	CATCACTTTC	AGCACAATTA
141051	CAGGAGAAGA	CTTAGACTCA	GAGCTTTAGG	ACTCATCATA	AGAGGCTTTC
141101	ATTGCTCTGT	CACCACACCC	CATATAGATC	TGTAATATAC	CACACATGTG
141151	AAGAAGCACA	GTACATTAGT	GCATTACAGA	GAGACAAAAC	CACACCTATT

Fig. 1-54

141201	TGTGTGCCTG	CAGTCTTACA	CCAGCAGGAA	GATAATTAAC	GTAATGAATT
141251	TCTATAAAAA	TGAGAGAATA	TGGCCCCCTG	GTCCCTACTGC	TTGTTCTAGT
141301	CCTGATTCTT	CAAACGTAAG	AATGCAAGTA	AAATTACTCA	CTTGAACAAA
141351	GTCAGCAATT	TGCAAGAACT	GATATTCTGA	AGTTCAAGTA	ATTAGAGTGA
141401	TTTCCAGTAC	TTCTGGCTGG	AACGGGCAGC	TGAAAATCAC	CTGGTCCAGC
141451	ACCTTGCTCA	AAGCAGGACT	ATCTTCAAAG	CCATATCAGA	TAGCTCCAGA
141501	CCTTCCCTAG	TCAAGTGTTG	CCTATCTGCA	TGGTTGGAGA	ACCCACAGCC
141551	TTCTGATTAA	TTTGATTTTA	AACATAAATT	CAAATGTCAC	TAGCGTAGCA
141601	GTAGTGAAAG	CCATTCAACT	GGCTTTACTT	TCTCTTACCA	AATGAGAGTT
141651	AGCTGCAGGT	GAAAATAAGC	CCTGCCAGTT	CTCATTTTTT	CTCCACAGC
141701	CCACAAAGCT	CTCACTGTCT	GTCCCTCACTT	GTAATACTTT	TGAACCAACA
141751	TCTACAGATT	ATCTCTGTAA	ATCCCAAGCA	GTACCTAGTC	ACCACGTGAA
141801	CAACAAATTC	CTACATTTAA	CAATATTTAA	GAGCAAAGGC	CAGACCATAT
141851	GTAGCTGCAC	ACTACACATT	TTTAGACCCA	ATAGTATAAT	TTATACTTTG
141901	ACTCCATGTT	GCTGCCATGT	GGATAACAAT	GCGCAATCAT	TTGTACCTGG
141951	CTTCCTTTTC	TAAGTAGTAT	ACTCTTAAAC	GTCACAAGAT	AAAGACTCTA
142001	GTTCTGTATA	GTCTAGCTGA	CTTGTGACAA	GAGCAAACAC	TCACAATTTT
142051	ATGGTACTCC	TGAGGAAAAA	AAGGATCCCA	AACTAATTTT	GAGCTTTTAC
142101	ATATTTTTTT	TTAACCTACA	GAGCACCTTG	CTACTTCTGC	TGAATGTTAG
142151	CAATAGCAAC	CCACAGTCTG	AAATCAATGC	AATGAACTTC	TACTATGGGT
142201	ACCATACTGA	TGACAGGAAT	AGTGCAAGTC	CTTACACTGG	AAGGCTGACT
142251	CCTTAGTCAC	ATAGGTAAAA	TTTAGAAATT	GCAGCTCTGA	TAAGAGATCA
142301	GTATGGGAAA	GGGAAAATAA	TGGGGTGCCA	GATGAGTGCA	CCTTCCTGAA
142351	AGGAAGGCAG	ATATATGGGA	ATTAAAGGTG	GACAAGGGAT	GCTGTGGAGG
142401	TACCATCAAC	TTTCACAGGG	CTGTATGTAA	AAGCAGCTCT	CTTTCCTGTT
142451	GATTCTCCGC	TGCCTCATTT	CTTCTGGGCA	AAGTTTGTTA	CTCTCCAGTA
142501	ACGTCCTTTC	CTCAAAGTGT	TACCTAATCC	CACCCCTCATT	GCCTTCTCTG
142551	TTTTGCTCTG	TCCTTCAGCA	GTCTCTACCT	GCTTCTTAAG	GTAGTGAAGT
142601	AAGAGGGCAG	TTCTGGAGTC	AAGCTCTGTT	TCTATGAGGG	TAAAGGCCAG
142651	GGAGAGAAAG	GTTTGGGAGT	GTGAGGAGAG	CCTTTTTTCT	GTGTTGTTCA
142701	AGTACTTAGT	CCAAGCTGCT	TTCAGCTGCA	TCTGCAGAAG	ATGGGGAATG
142751	GAGGGTGATC	AATGCCATTTC	CTCCAGCCAC	AGAGCAAGGG	CTTTCCTCTT
142801	CCTTGCATAC	AGTATACTAG	CTTTCCTTAG	TCAAATGTTT	CCTCTGTGCT
142851	GCAGAGTCCA	AGGTAAAGAG	GCTTTGTCTA	CAGCTAGGTC	TATGTTCTTA
142901	GAGAAACAAT	TAGCAACTGC	AAAATCAAGA	GGTACTAAGA	AAGCCTCTGA
142951	AGCTATACCC	AGGGGTCTGG	CAAATGAAGG	GGGACAGATC	AAGAAGAAAG
143001	AAGAGTCTAG	AGCAGTTTAA	GGGAATAATG	CCACTAGTTT	TAAGCCACAC
143051	ATCTGGTGGT	AAGCTTTTAA	CTTTGAAAGA	GACAGAAATC	TCAAGATACA
143101	CCAGCCCAAA	ATATAATGGA	GCCATAAAGG	TCTGCACGTA	GCTGAATCCC
143151	AACTGGAAAG	AACAGCTTCA	AAGAGCTTGG	AAGTGCTGAG	GTGAAGAAGA
143201	GCATGTGATC	ATTAGATTTT	AAAAGAAGGT	CCTCAGCACA	ATAACCAGAA
143251	AGTTCACCTT	TCTGTGGGAC	AAAAGATGCG	TCCCTCACAA	AGGCTGGGGG
143301	AACAAAATCT	TTGCATCTCA	TTTTGCCTGA	GAGGAGAAGG	AAATACAAGA
143351	TCATCTTGTT	TTACTTGGTG	TGTATCACAT	CATTAATTTT	TATTTGGTCA
143401	CTACTATGCA	GAACCTTGCTA	ACTTGAACCA	TGTAAAAAGC	ACACTAGGTC
143451	TCAAGAGACT	AAAATGCTTC	TTGCAACAGG	CAGAGTGTGA	GAGATGGAAG
143501	GATGGAAAAA	TCTTGCAGTG	ATGAAGGCAC	TGATAAGAGA	TGTTGAAATG
143551	ATACTAACAA	ATGGCACTCT	ATCTTTCCCA	AGATCTTTGT	CAGCATGAAG
143601	GGAAAATTCT	ATTCCAAGCT	CTCTTTGAGG	GGTTACCATG	TTCCAGGATA
143651	AAGACTTGCT	GCATACACAA	GCGCACTTAG	TCAGGTCACT	CAGATCAGTC
143701	TCATGCTAAA	AAGTGTGAAA	ATAGAAATAC	AAATAAGGGG	CCAAGCAGAT
143751	TACTGAACAG	CAAAGATTGC	CAGTACGTGT	CCACAATGAG	TATTTGGACA
143801	TTTCACTGCC	GAAACTTCTG	AAAATATCAA	CTGCCTTATG	AAACTCTGGT
143851	TATTCCACCG	CACAGGAGTA	TTTGTGGTTG	AGCTGCATGA	AGAAATAGCA

Fig. 1-55

143901	AGTGTTTTAAA	CTGATTTCTT	AAAAGAGAGC	CTTTCCTCTA	CATGCTGCTC
143951	TTGCACATCC	ATGCGTGGCT	CCTCTTCAGG	AGCAGGAATT	GGTTTTCTGA
144001	TTCAGCAGTT	GTGTAGCTGA	CGTAGTTATA	CCCTTTGAGA	GATTTCTTCA
144051	GAAAAATGAC	ATGTTTAGGC	TAAAGTGCAT	GTAATCCACA	CATACACCAT
144101	TACTCACAAT	GAAGTACTAT	GCAGCATGAA	ATTCAGGCTA	TTCTTCTTCA
144151	TATTTTTTGGT	TTTAATTGCT	ACCTTGGTTA	CTTAAAAAAT	GCTCACCATC
144201	TGATTCATGC	AAAGGAAAAAC	TGCACACTGG	TAGATGTGAG	AACAGCACGC
144251	ATACTCACTT	CCAGATAAAC	TAATCTCTAC	TCAGATATCG	AGATCATTGC
144301	TTCTCCAGAA	GTGTTGCACT	GGTCATCAGA	ACTGAGTATC	TCAGGAAAAAG
144351	CACTGTCTTT	TCTAATTACG	GCATCTAAGC	TAAAGCACAC	AGCGGTAATA
144401	GTGCAGTATG	ACAAATTATG	CCAGTGTTCA	ATTCATGTGC	CAAACTCTCAC
144451	CACGCCTTTG	CGTTCGTCAG	GTGTGGAGCA	AAATGCCTCA	GTGATATTTA
144501	GACAGGAACA	CCACCACACC	TCTTAACAAC	TCATAAAATC	TAAATGCTAT
144551	TGGAGTATGT	CAGCAAAGAT	TGCTTGCGAA	AGGTTGCAAA	TGTACATGTA
144601	ATATGTACGC	TTTAGATAGC	TATCTACACT	GTTTCAAAAAT	AAAGACGCGT
MAR					
144651	GTGTTCTCAC	TCAAAGCTTT	AAAGGGAAAT	AAGATACTCA	AAGAAATAAT
144701	CTCTTTTGAA	CTTTAAAAGC	TATTTGAGAC	TTCACGATGA	TACAAACTTA
144751	TCCCACATAA	AAATCTTAGG	ACATAAAATC	CATTACAACC	ATTCCAGCTG
144801	AGACATATAC	ACCATTGTTA	CGCTTTAATT	TACAAGGTCA	GGACAAGCTC
144851	TTGCTGCATT	CTGTGACAAA	AGGGCTCCTT	TGCACACCAA	AATCCATGCA
144901	CCCACTCCAA	GCACCTGATC	ACTGATCACC	ATTACCATCA	CTTCAGTCTC
144951	CGTGCTCCCA	TTCCCCATAC	TGTTTTGGCT	CTTGCCAATT	ACAGGATTGT
145001	TATGAAACTA	AATGTTAAGC	TGCCCTCCCA	CAGGATTCCA	ACATTCTCAG
145051	GTTTCAAAAC	CATTGTCTTC	CCCACCCCTC	TTATCTCCTG	AAGTCCCTTAT
145101	AATGGTTTGG	ACATTTAAAG	TCCTTTTCATG	TTTAAAACTT	ACTGGCCCTGC
145151	TCTGGCTGAG	ACAAAAACAC	GAGCAGAATG	CTCTGTTGGC	TGAACCAGAA
145201	ACCATTCCCC	CCCAGATAAA	TAAACAGCAC	TTTTACTGGT	AAAAAAAGAT
145251	ATTAGAAGAT	GCCAAAGAAA	TGGAGTAGCT	TTTCTTCAAG	CATAATTTTTT
145301	TTCTTTTCAA	ATACCAAACA	CCTTAGGTTT	GAATTACATT	AGATTTTCAA
145351	GAATTACAAA	GGGTTCGTAG	TTAAAACAGC	ATACGTACAT	GAAAACCAGC
145401	CATGGCAAGT	TTCACACAAA	TACTGTGTGA	AAGCAGAAGC	TACCAAACCT
145451	TCCTCTCAAA	ACCCTCAAGT	ACATTTAGAT	CACTTTATAA	ATGATCTATG
145501	TAGACAGCAA	GTATTTAACC	TACTCCTGAT	CCCAGGTACC	AATGAACTGA
145551	GCAACATACT	GTGTAGGAAA	GTTGCACTGA	CTTGTGCTAA	GTTGCACGGA
145601	AACTGAAGGA	AAACAAAATG	TGCTTATATA	GCTGAGATCT	GGCCAGGGTG
145651	CCTGGTGTGC	TGCCAATATT	TGTCCTGCCA	AAATGGAAAC	ATGAATGACC
145701	ACAGTGAATG	AACTACAGGC	TTACTTCCCA	CAGGAAGGAT	ACTACCAATA
145751	CAAACATAAG	ACTTTGAGCA	TGTTGGAGTG	TTGACTTAGT	AGAGAGTGGG
145801	AGTGAGGGAA	CCGCTGCTCC	TGAGTCAGCC	TCAGCACCGC	CCATTGAACT
145851	CTGTACCTCC	TAGCCTTGGT	AACTTCACAG	GATGCTGGAA	AATATTATCA
145901	AGTCATCACA	TTGATTTATT	GAATATCTTC	CTTTTAGATT	TTAGTTGCTT
145951	TGTATGTATT	TTTTTTTCCA	CTAATAACCA	GCCATGCTAT	TCAAAAAGGCA
146001	TTTTTAAAAG	GCAACGTTAA	CACCCTGTAC	AAACACCATC	CTCTCATTCA
146051	TTCAAATCCC	ACATTTCTGC	ATATATGGAA	CATGTCAGTC	ACTTCTTGTA
146101	ACAGAGCAAG	TACTATGACT	AGTCAGCAAA	TTAAATTCAT	CCCTGCTTTA
146151	AAAACAGAAA	ATCCAAGTAA	CTGCTCCAAG	GGATGAAGTT	TATTTAGTGT
146201	ATCTATCATT	TGTTCTACAA	CACAGTTAAT	TTTGCAAAGA	TGACTCAAAT
146251	CATTTAAAGC	TTTGGAATATC	ATTTAAGGCC	AATGTAAACA	GATTACAAC
146301	TTCCCAGGCG	CAATGGAAGC	AATTAATTCT	GCAGCACACC	TCTCCTACAC
146351	TACTATACTC	TGGAAAACGT	AACAGATGCA	TCTAATTATA	ACCCACACTG
146401	AAACATGCTG	TCTTTATGTA	GCTATGAATT	CAAAACAGCT	GAGGGGCAGG
146451	AAAGAACCAT	CCTCCTAAAG	CTATGTGGCT	GCTCACCTGT	AGGAAAGCAA
146501	CTTCAGCAAA	GCTTTGAGTT	CCCAGGTTAC	ACTGATGCAG	AAGCTTCACC

Fig. 1-56

146551	ACTGGCAAGG	TGCTCCTTGT	GTGAGCAACC	TATTCTGCTC	TATAAAACAT
146601	TTAGCAGATA	ATCCCATATC	TCAGTCCTCA	GTACAAGAGA	CTCTGTGCCA
146651	GCCACTTCTG	TACGAAATAA	GCCCACACGT	ACTTTCATAG	ACCTCAGGGC
146701	AGAAGAAAAG	TTTCAGAAAG	CAGTTTGTGC	TGAGGAGATA	GACCTTGGGG
146751	GTGAGTCTTT	CTCCATATTG	AGGCGGAATC	CCTCAAAGAC	AAGCAGCCCT
146801	TATCCAGGTG	TTCAAGGTGA	TATTTTCAAC	AGAGCAGGGA	GGTAAAGAAT
146851	GAAATAAAGG	GCAGAGTTAC	ATAGGATTTT	TCAGTCAGAG	GTGAGAGCTG
146901	AGATGGACAG	GACAATGAGG	TAAGGACAGT	GTGACTGTGA	GGAGAATTAG
146951	CGATGGAAAT	GCTTCACTAG	CCAAGGCAAG	AAGAAAAAGA	GTATTCAATA
147001	GAATATCAAT	TTCTGGGGAA	AGAATTCATC	TCTGAAGGGC	TACATAGGGC
147051	AAATAGCTGC	TTTCAACTTA	GAACAGGGAA	ACTGAGGCAG	CAGCAAAAAA
147101	AAAAAAAAAA	GTCTAATCTG	AAACCCACAT	CAGGTTCTAC	TGTTGTTGCA
147151	GTGATAAGAA	AAGTGTCTGA	TGAGTGTTC	TCAACCTTCG	TTATCTCACA
147201	GTGAAAACAT	TTTCCTGGTT	ATACAGTTTT	AGAATCCTCC	AATATTACCA
147251	AAAAATCATT	TTACTAAAAA	TGGAATCCCA	CAAGAAATGA	CTAATTTTTT
147301	ATCTGTAGGA	AACGGACAAT	AGAAAACTC	ATAAATATGA	TGTCACGTGC
147351	CTTTCGCTGT	CTCTTCCTTG	GAAATTGTTT	CTATTAGAGG	AATCATAAGT
147401	AGGTCAGCTA	CTGCATTTTT	TTACCCTCCA	AATTGCAAAA	GAAATGTTGT
147451	TTCCAGCAGT	GATGGTTCAA	GTTGTAACCT	GCCTGTTGCC	ACAAAAATGT
147501	TTATAGAAAT	ATTTCTGCAG	TCAGTTTTGT	AAGGTTCTTG	TATGGTATCA
147551	CTCTCACCGT	CACCTCACAT	CCTACTCTGA	GATGATTCAG	TTCTTCCATA
147601	GGGATGTGGC	CTTCAGGGCA	AAATAAATTG	CAGAGTCATG	AGTCATAAGA
147651	ACCTTTGAAG	AACAGGCCAG	GCAGACTATA	AATTCAGCCT	ACCCATCATC
W gene exon L					
147701	TGAAGTCAT	AAACCTTGGG	CAGACCCAGA	GCAGCAGTCT	TCCTCCCTGC
147751	ACAAAACAAG	GTACTGTAAT	TATTTCTAGA	GATTATTTAT	TTCACCTACT
147801	CTTGGATGAT	GTCGATCTGT	TGACAAATGC	ATAGAAAAAA	AAGGCAGAAG
147851	GAATCTGAAT	AGAAAACAAT	AAATACTTGA	GGAAGAAATT	TACTAAGATG
147901	GCACAGGCAA	GGTCTAGAAG	GGGTAAGTCT	CAGAAATATG	CAGGAAGAGT
147951	GGTTTATTCT	ATGTAGTTCT	CAGTGGCAAA	CATGTATATC	ATAGCAGAGT
148001	AAGAACCATT	GTGTTTGCTT	AAGTTAGATC	ATTTGTTTAT	GTGCTCTTCA
148051	ATTCTTGTGT	ACGTCAAGAC	ACAGTCAGTA	CATCTTTATT	TTATGGCTAT
148101	TCTGTATCAA	CCAGAATAGC	TCCCCTACAC	TACCTAGGGC	TCTCAGCTTC
148151	AACTGCAATG	CAAATAACAA	AGAGCAGCAC	CTGTGTTCTA	CCAATAAGGA
148201	AATTTGTCTT	GCAGAACTGG	GAAGCTATGA	TTCGGACTAG	CACCATAAGA
148251	CAGAGTTTCC	AGAAATTTTT	GAAAGTTAAA	AATGGAATTC	AGGATACCTA
148301	GCACACAGTA	GTTAGAGAGC	TGCTTGTCTA	GTGCTTCAAT	ATTTTCTTGT
148351	ATCCTAAAGG	AATGGAATAT	TTGTTTCACTA	CAGTTACGAG	CTCCAAAAGG
148401	CTCTTGACCC	AGTAGTCATA	AGAAACAATC	TCTCAGCATC	TTCTAGCCCT
148451	CGCACCAGTG	AGTAGCATTA	TCATATGTCA	CTCCAAGATG	CTGTAAAGGA
148501	CAGTGCAATA	AACGTCCTGA	TGAACAAATA	CAAAATGAAA	TATGAGGCTG
148551	CTTTTTCTAT	ATCACTTGAG	TATGGTTAGT	GTTGTTGGTG	AAACGGGATG
148601	CACTATACTT	AATATAACTT	TTTAGTAGCT	AATCTTCCTC	ATTTTCCATA
148651	AAGATATCTC	TCTTCTTTCC	ATCTGTAAGT	TCCTTACCAT	ATCATTATAT
148701	TGCTTACATA	GAATTCACCA	TATAGTTATA	AATTGCATGC	TTTTTCTTTT
148751	TAGTATAACA	CTGTAACCAT	CCTGTTTTCGA	TGAATTTTCT	TTTGTCTTCT
148801	CTGGCTGTCC	CTTGCATGGA	TATCTGTCTT	TCTAAGTGAA	CTTCTGCTGA
148851	ACCAAGGAGA	GTTCAATTCAT	GCACTACAAA	CAGACGTAGT	TGGCAGAAAT
148901	GAATATTGTA	CCAGTACTGA	CAGGTCAGAA	TGCTTTCATT	CAGTTTCCCTG
148951	AGGTCAGAGG	AGAGCTGAAG	AAAATACCTG	GCACAGTCTA	GATTTTGCCT
149001	TTGAACATAC	ACTGCCAGTG	AGCCTCAGTC	ATACAAAGGA	TCACTGTGCT
149051	GCACTGGCAT	TCTTCCACAG	TCAATAAGTG	TTAAAAATAC	TTTTAGAAAG
149101	CCTACAAATC	ATAAAATAAA	CTTCAAATAC	TGAAAGGGAG	CCTGCAGACA
149151	TATAGCAAAC	ACAATTAATT	CTTAGCTAAT	AACATCTTTT	GTCCCTTTCT

Fig. 1-57

W gene exon 1					
149201	GCGCAGGTTT	AGAACAATGG	AAGCTTTAAA	TAAAGCAAAC	ACAAGCTTTG
149251	CTCTTGACTT	TTTCAAACAT	GAGTGTGAGG	AAGATGACAA	CAAGAACATT
149301	TTGTTCTCCC	CTCTCAGTAT	TTCATCTGCC	CTGGCTACTG	TGTATCTGGG
149351	AGCCAAAGGC	AACACTGCAG	ATCAGATGGC	AAAGGTGAGT	CTGAGAAGAG
149401	TTGATCTACT	GGAGTAACAT	TCTCTATGAT	AGAAATTTAG	CATGATGCAT
149451	CAAAGGAAAA	CCTTATGCAG	GTCAAAAAGAT	ACAGTCTACA	GTAGCTTCTG
149501	TAAGCAGGCC	CACACCAAAT	GGGAGCAGTG	GCATTAGTGA	CATTGTCTCC
149551	TTTTAAATGT	CATTGGAAGA	AAGAAGAGCT	CTTAATCCCA	AAGCTCAATA
149601	ACTTGAGCAC	TCACCAGTGA	GAGGGAGACT	CGGATTCTCC	ACCTGCCTTG
149651	CTCCAGAAAA	TTCTCATTTT	CTGTCTCATC	TCTCTGGAAA	TGGCCCTATG
149701	CAGAAAGACC	CTCCACTGTA	TCTCTAGTAA	GTTTTGTGCT	TTGCTAACAT
149751	AAATCTACAA	ACCCACAAGG	TCAGAGAAGA	AACACAGTCA	GGGTGATAAT
149801	ACAACCCCTT	CTTTTGAGTA	CGTACTTTAC	AAGAAAAATC	ACCTACTGAA
149851	GTTCCCTAAC	TCTGTGCAAA	GTTTCATAGCT	TCAAAAAGGCA	GCAATGAGAA
149901	CAGCCCCAGT	GCAAACATGG	TTACCTAGCA	TGTACTGCGG	GAGGGGCTGA
149951	TGAAGTGGCA	TCTGCTAAGG	CAGAAGAAGC	TGCTCCACCT	GCTAAGGCAG
150001	CAATCCAAC	ACTGAGCTAC	AGGACAAATG	AGGACCAGCA	GGGTCACAAA
150051	GAAAGGAGAG	ATCTTCTGTC	AGGAAGAAGG	GAAAACAAAA	CAAAACAGAA
150101	GGCTTTTGAA	AAATGTTCCA	AGGTTAGATG	TACACCTCTG	TAGCCTGGGT
150151	AAGGTGCACA	TGCCCAGAGG	AAGGCATTTA	GGGTATCAAT	TTGCTCCAG
150201	TGTTTACCTG	CTTTCTGACA	TGTACCAGGC	TCTCCATTTT	ACACCCATGC
150251	TTTGGCAGTT	TCCACCTGCA	GATAACTGGC	CCGTCCCAGG	TATTACCCTA
150301	TGAGTACAAG	AGCCGATTTG	AAGCAGGCAA	GTTCTCTAG	AAATACCAGA
150351	TATATGAGAA	TTCTGCTTGC	AGCCCTCATC	TTAGTGTGCT	CAAGACATCC
150401	TGTACACATG	GGCTCAAAAG	TAAAATCTGT	CTTTGTCTCT	CTTCATCACC
150451	AGTCCCATGA	CATTACTGAA	AGTTTTTACT	GAAACAGCAA	ATTTTCTATC
150501	ATTGCATTTA	TTACTGCAAT	TTCCACTGCA	GGTACTCTAC	TTCAACGAAG
150551	CTGAAGGAGC	CAGAAACGTC	ACCACAACCA	TAAGAATGCA	AGTCTATTCC
150601	AGAACAGATG	AGCGCCTATC	AAATCACCGT	GCCTGTTTCC	AGAAGGTATA
CR1-d					
150651	TAACCAAGTC	TAATGATCAT	AGAATCATAG	AATGGCCTGG	GTTGAAAAGG
150701	ACCACAATGA	TCATCTAGTT	TCAATCCCCC	TGCTATGTGC	AGGGTCACCA
150751	ACCACTAGAC	CAGGCTGTCC	AGAGCCACAT	CCAGCCTGGC	CTTGAATGCC
MAR (0.852)					
150801	TCCAGGGATG	GGGCATCCAC	AACCTCTTTG	GGCAACCTGT	TCCAGTGCCT
150851	CATGATCAAG	CTACAGTCAT	GCTAACACCT	TCCCTTGCTT	TTATTTTCTC
150901	TCTCTGTTTG	CCTTCCTCAA	ATGCAGGGTA	CACAACTGAT	TAGTACAGCA
150951	TCCTGTGATA	CCTTCACCTT	ATGCAATACT	TAAGACATGC	TTCCCATTG
151001	TAGGTAGAAT	TGCAAAATTT	AACCTCAAAT	TTGCAAAATT	TGAAATTTAA
151051	TGATGGGACT	ATTCTCTATC	AGTGGACCTC	TTGATCTTCT	CCCTTCAGCT
151101	TTGAGATTTT	TCTCTTTTTT	TTTTCTCTTT	CTTTTTTTCC	CTTTTCTCT
151151	TCTTTCTTTT	TTCTTTTTCT	TTTTCTTTCT	TTCTCTCTTT	CAATCTTTCA
151201	TTCTTTCATT	CTTTTCTTTT	TAATACTACT	TGTTCAATTA	GTTATTGCTA
151251	GTTATTTCAG	AACATGTTCT	TTGAACAGGC	ACAGTCCCTA	TCTCAGAACA
151301	AATCAGAACA	ACAAAACCTAC	TCTCCACAC	ATTGGATTGC	AGCATCAACA
151351	CAACAACAAC	AACAACAGAA	AAAAACAGCC	AGAGAAGTAA	CTTTTACAGA
151401	CTATCCATGC	TTGATACATT	TCAGAAATTA	GTTTCTATTT	CATTTGAAAG
151451	TTTAGTGGA	TAAATTGGCA	TGTTGGAATT	TCCTAAGGTA	GACCTTGCAA
151501	TAAATCTTAA	AGAAATGGGA	ATTATTGTAT	TCCCGAGATA	TTTCTTTGAC
151551	AGACTGGCAG	GCATCTTTTG	TTAAAATAGA	CATAATTTAA	GAGAGCAGAA
151601	AATTTGGAAG	TCAAACCTCTG	AGTGAGTAAG	GTAGTTTTTC	CTCACTGACA
151651	ATGCAGCCAC	TGTGGTAAAA	AGTTCCTCTC	CCTACTCTTT	CCCATCATTC
151701	TTTTTTCTTT	TTGTGAGTAA	ATCATTTCCC	TGAAGTCTGT	CCACAAAACC

Fig. 1-58

151751	CCTGTGGCAG	CAAGTTTTGA	TAAATGGGAA	CTTGGGTCTA	CATTCCACAG
151801	CTACGGTGGG	AAGACTAATT	TTGGGGACTA	CGCCAACAAA	CCATTTATGT
151851	TGCACGAACA	GGAGATGGAT	TGTTTCTCAT	GAGTAATGCT	TGTCTGAACT
151901	GTAAGAATTA	TGGAGCGCTC	TAGGCAGGGA	AAAGAACTG	TTCTAATAGC
151951	TTAGAAATTT	AGATAGCTGT	TCATGCTTCT	GATTTTCTTG	CAGTAACAAG
152001	ATGAATACAA	CACAGGTCCA	GTTTCTTAGT	CCACTAATTC	ACAGCTTCAT
152051	TTCCTTAAGC	TGGTTTGACA	GTTTGAGTCC	ACATTCAAT	AATTCTGTTA
152101	CATAAATATA	AAGAATTTAC	TGCAATTACT	ACAACAAAAA	GCATTTGCAA
152151	AATATTATTA	TTTAGAGGTA	GGTTAAAAAA	GTTAGAGGCA	AACTTACCAT
152201	GTAATTAACT	TTCATAAATC	TTATCAGGAG	TCACACAGCC	AGGTCTTCAT
152251	GTATAGTTTA	GCAATTACAT	TCTGTCTCTC	TCTCTGTATG	TACTTCATTT
152301	TGCAACCTCC	ATTTAAAAGT	CCTTAAACAT	TCTAAACAGT	TCAAGCTTTT
152351	ACTACTTGCA	TCCCAGGGCT	CTTACAGTGT	CTATAGCATA	TCTGAAACTT
152401	TTAGTAATTT	CACATCATT	TTTTAATATC	TGTCTGAGTT	AGTACACATC
152451	TTGCATTGCA	GTAAAGGCAA	CACCACCTGA	ATAGCAGTAG	TTTACATAGA
152501	GCTGCATGAG	GAAAGAATTT	AGAAATTTTG	AACTGTTTTA	CAGAAAAAAA
W gene exon 2					
152551	AAAAATGTAT	AACCCTTATT	TCCTTGCTCT	CAAGACAGAA	ATAGGCCAAAT
152601	CAGGTAATAT	CCATGCTGGG	TTTAAAGCAC	TCAACTTGGA	AATCAACCAA
152651	CCCACTAAAA	GTTACTTGCT	TAGAAGCGTC	AAACCAGTTAT	ATGGAGAAAA
152701	GTCACGCTCT	TTTATGATC	TATCTATGAC	AACAAACCAT	AAATTATATG
152751	GTGTGTCAGA	CTTTTATGAT	ATCTGCAAAT	TGTGTAATTA	TCTTTAATAT
152801	CTTTCAAATA	TTTTTATGAT	ATCTGCAAAT	TGTGTAATTA	TCTTTAATAT
152851	ACTTCCTGTG	AGGTTCTTCT	TGAGAATTTA	GATATCATGA	CTTTTATAGG
152901	ATGTATATTT	AATTTGTGTG	ATTACACAGT	GTGGCTACGC	AAAAACATTT
152951	AAATTATGTA	TTTCCAAATA	AAATCAATAC	TATGTTCTTT	TGACAATGCT
153001	GTGCTTGTAG	CCTACACAAT	TTTTATGCAT	TCTCTCCAAT	CGGCTATAGT
153051	TATTTATTGG	CATTCACACT	GGCAGGCAAC	AAACATAAGA	CAGATGTCTA
W gene exon 3					
153101	TCTTGCACTG	CAGGAATACT	TACAGTTAAC	CAAGAAATAC	TACAGTGCAG
153151	AACCACAATC	AGTTGACTTT	GTGGGAGCAG	CAAATGCAAT	CAGAAGAGAG
153201	ATCAATTCCA	CGGTTGAACA	CCAGACTGAA	GGTAAGCTCT	AGCATCTCCT
153251	CTCCCAGTTC	TGAAGGAAGC	AGTTTTAGTC	TTGAACAATT	TCTCTGTGCC
153301	CAAAGGCAGG	TAAACAATTT	AATCAGAAAA	GGAAAATCAG	AACAGTTTTG
153351	CTGAAGTAAT	CATCTGCTGG	CAAGCCCTTT	CTAGAATTAT	CTTTCACCAT
153401	TTGAAAGGGA	GAGGAATGTG	GTTTCCTCTA	TAAATCAAGG	TTGTCTATGA
153451	TTTATGAATA	ATCTCAAGCT	AGAAGTATGC	CAAATCAGCA	CTCTAAATTT
153501	CCTTGTCTTA	TGACTTCAGA	AACTACGCCA	GCATTTACTC	TGAAACAGTA
153551	AAGCTGCACA	AATATGTAAA	CGTTCCTTGT	TTTTCTCTAG	GTAAAAATAAA
W gene exon 4					
153601	AAGTCTGCTG	CCTCCTGGAT	CCATAGATT	ACTCACCAGG	CTAGTCCTGG
153651	TAAATGCGCT	CTATTTCAAA	GGAAACTGGG	CAACAAAGTT	TGATGCTGAA
153701	GATACCAGGC	AAAGGCCTTT	CAGAATAAAT	ACGGTATGGT	AACATACTGC
153751	CTTATATACC	AGACTGCAGG	TTGAAAAAGC	AGTGAAAAAG	ATGGAGGAGA
153801	TAAATTCCTG	TCATTCTTTA	AAGCCACATA	GCACTAAAAT	TAGTATATTT
153851	AAAACATACG	TTATATCCTT	CTTAGCACAT	CTTCAGTACA	AAGACCGCAT
153901	ACATATGCTA	GCACCAAGG	CACAAATAAA	ATTATCAGAA	GCCAGCTTGA
153951	AACAACTTTC	CATACACCTC	TTAAAGCAGG	AAAAACATAG	ATGTGAATAG
154001	AACTGTATGA	ACTAGTTCTA	TATATTTTCA	TTTTTAACCA	TACAATGAAT
154051	TGGAGTGGAA	CAGAGCTTCC	AGTAAATACG	TGTCATCCTA	GCTGGCTAAG
154101	ATAACCTTCC	CAGCCTCCCA	GTGCATTCCC	AGAAGAGAGG	GGCCCTCTGT
154151	AGATCCTACA	GCTTCTCTTA	GAGCCACAGG	GATGTACCTC	CATGCTACTT
154201	CAATGTAGTC	TTTACTGTTC	TGAGTATAAA	TAGCAAGCTT	TTTATTTGAT

Fig. 1-59

W gene exon 5

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154251 TTGTTGCAGC ATACAACATA ACCAGTGCCA ATAATGCACC TGAGTGATAA
154301 ATTTAATTGG ACCTACATAG AATCAGCCCA GATTGATGTT CTTGAGCTTC
154351 CATATGTCAA TAATGAACTC AGTATGTTCA TCCTGCTACC ACGGGATATC
154401 ACTGGCCTAC AAAAGGTAAA GGGTAACTTT AAACCTCAAAT TGCCTGAGAA
154451 ACAACGTTTT CATGCATATC CATGGCAAAG CAATCCTGTT TCTAGGAAGG
154501 AAGGTATCGA TAAGGCTAAA GGAAAAACAA ACCCCAAACT TGCCCAAATG
154551 TTATGAAGCT GAACCTTTTC AATGTTTTGT TTGGTTTTCT TTTTAACTCC
154601 TGGCACGTGG CACCTCGTGC TTCTCATGT TGATCAGTGC TGGAAATAAG
154651 TAGCCCGAAT CCAACAAGAT AGATCTAATT CCAGCTGAAG AACAACGAGG
154701 ACAGAAAGAT AGTTCTGCTG ACTGTCTGTA CTGATTCGGA CAGATATTAT
154751 TACATTAAAA AGAAAAGCAC AAACCTGGACA CCTCCACTA CTTTCTGTGA
154801 TGTTTAGAGC TAATATACAT GTACACTGCC ACCTTCTGTA AACACACTGA
154851 ACCTGACTTC AGATAGTGAA CTACTGTGAA ATTCTCATTT ACATTAGTGG
154901 GTGTTTTGTA GAAAAAAGTA TTTTCACTAA ATTCTAAGAC
154951 ACACAGAAAA CAGAAATGTG AGCAGCAAGT CAAATAGACT ATTGTTACTT
155001 GACAGTGACG TTGTTTTACA AATATTTAAT CCTCTATAT TCCCTGATGA
155051 TTAATAAGAA CAGTTCAAAT ACTGCACTAA CATGCTGTAG AGCAAAACAC
155101 TCCTTCCTAG TAGAAAATAT TTCAGAGTTG GCATTTCACT AATGGTTTTCT
155151 GTACTTGAAA AGTACAATTT TTTTGTCTAC AAAAAAAGC TACAGAATTT
155201 TTGTAGTTTG AAAAGTTCTT AAATAAGAAT ATAAAAAGAA TAACCCCTAG
155251 GGAACAGTTT TTTGAACACT CTGTAATTTT CTGGTTCTCT TTTCAATTAA

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W gene exon 6

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155301 CTGCAGCTAA TAAATGAATT GACTTTCGAA AAATTGTCTG CATGGACCAG
155351 TCCAGAATTA ATGGAGAAAA TGAAAATGGA AGTGTATCTG CCCAGGTTCA
155401 CAGTAGAAGA GAAATACGAC CTGAAATCTA CTTTGAGCAA GATGGGAATA
155451 GAAGACGCTT TCACTGAAGG TCAAGCTGAT TTCAGGGGAA TGTCAGAGAA
155501 CGCTGACCTG TTTTGTGTCAC AGGTTTTTCA CAAAGTGTAT GTGGAAGTCA
155551 ATGAAGAAGG CACAGAGGCA GCGGCTGCCA GTTCAGCATC TCTAGCGTCA
155601 CGAACCCTTG GTGCTACAGT TATTTTGTGA GCAGATCACC CTTTCTCTT
155651 CATTATCAGA CACAACAAGA CCAAGTGCAT CCTTTTCTTG GGAAGGTTCT
155701 GCTCCCCCTA GAAAATCAGC TATTAATAAA CAAGCCCTTA CAACAACGAT
155751 GAACACAATG TATGCCATGA AGAACACCTT GACAGACTTT GCACTTTACC
155801 ATTTTCTGT ACTATTGACA ATCTCTTTTA GAAGAGAGCT CAAATTAAAA
155851 ACATGAATTC AAACCTCTGA TTCCTTTTCC TCTGCAAAGA ATCCTAGCAT
155901 CGTATACTGC ACTGTAGAAC ACTGAACTGC ACGCTGAACA ACATGGATGT
155951 GTCTTTTCAG TGCTGTCCAA ACCAGAAGTG CTACAATGCA GAACAGACTA
156001 GGCTGATCTA AACAGTACCT TCTGACCCAG TTCCTTTCAC ACGTAAGAAG
156051 AAAAGAAACA GGAGAAACTC ATTCCTGCAT ACAGCTGTTT CATCTCTTCA
156101 AAGCCAGCTG TCCCAGGCCA GCTCAATCAC AGCCTTGTC GTTTTAAATC
156151 AGCTTCACAA CATAGCATGG CTGGTAATGA AACAAAAGTG CAAAATCCTC
156201 TGTGTTGCTG ATACTGGTGG TTTGCTCTTG CACACAAAGG AGCTAACACA
156251 TGTACTTTCT AATCTCTGTC CCTCATAAAC TAGCAAATAC CAAACAATAC
156301 AGAACCAGAG TAAAGTAAAA TACATACCTT GAAATGCTTT CTTTGTGCAT
156351 AACCTTTAAT TCATTCAACG CTGTTGCAGC CCAGCACTGC ACTGCTTTAC
156401 TTGCCTTTTA CTTTGCCACA TATTTTGCTG CTTGGAGCAA GTGGGAGAAT
156451 AAAGTCTGTT ATGTTAACTC CCTAAGTGCT GTCTAAAAGA TTACATGCAA
156501 ATTCTCTCT ACATATTCAC TGCTTTCACA GCTTTTACTC CTAAAGGGGA
156551 GGAATTCCTA ATCAGTCATG CACATCTAAG AACACAGGTG ATGCTCCTGT
156601 TTCTCTGAAT TCAGAACAGG GAGGAAAGGA CTGGGTCTCT TAACAGCACT

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MAR-like element

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156651 TGCACACACA CTGACAGCAT CTCACTAGAA ACATCCCTTC CCAGAAAGGT
156701 AGGATACCTT TTTCTGGCA GAGGGAAGAG CGCTGACTGA TAGTGAGTCC
156751 TTTCTGTATT ATTCCACGTG ACCAACTGTG GCCAGGCTCC CTTTGGCTC

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Fig. 1-60

156801	TGCTTCCCAA	ATGGGAAGGA	ACGTAGGGAA	GGGCCAATGG	CAACCAAATT
156851	AGAGGGTGAG	TCTTGCAATTG	AGGAACACCA	TTTTCCCACC	GTAAGTAGCA
156901	CAGCACTGGG	GCAGACTGCC	CAGAAAAAAA	TTGAGGATTT	CCCATTCTTC
156951	AAAGGGCTGT	AGCTGACCTA	ATTTACCAGT	GGGTCTGCTC	CAGGCATGAG
157001	CTGGACTATG	GAAATACCCA	TAAACCAGCT	TGTGTCTTGT	TTCTATCAAC
157051	ATCCATTCTA	CCTTACCACC	TCAATTTCTC	ATCCTCTCTG	GCACCCTTAC
MAR-like element					
157101	AGCTTGACAA	GCAGGGGCAG	TTAGCTTGCT	TGCTTGCTCT	CAAGCATATT
157151	TCTTTGAGAC	TTGGAATCTC	CCTAGCTTGT	ACTTTCCCAT	CAATCAATCA
157201	CTCAGTGGAC	CTTTCTTCTA	CCCTGATTTT	TTGACAACTC	CTCTCATTGT
157251	ACTAAAGTCA	CCACTTGTTT	AGTTTCTGGC	ATTTCTTCAT	TGCCTTGCAT
157301	AATACTGATT	TCTATAACTT	TTCAGAAGAC	TTGACCCGCT	CTGTTCTTGT
157351	AATCAAGCTT	ACAGCAAAAT	GCTTGGCACA	CCATACAGTT	TCCTTCCCTT
157401	CCTCCTCCTT	CCTTCCCTGT	CCCCTAGACT	CTTACAGATA	TTGCCACTAC
157451	CTTCCCCTTC	TCTTACCACC	AAAGAGCTGC	TCTGCTGTCT	TCTGGGACAG
157501	CAGAGTGACA	ACTATTGTGA	CATATTTATC	CCTGTTGTAT	TGTTTTCACT
157551	CCCTCCTTGC	TCAAGCTCTG	CCAGTGGGGC	CGTTTCAGTT	CTTGCCCACC
157601	TCCATGGCAT	GCAAGTACTG	CACACTAACT	CAGTACTCTG	CAGTGCTTCT
157651	CTGAAGCGTT	TCCCAGCCAT	GGATGCAATG	AGATTCTTTC	ACCAACACAA
157701	GAAGCAAGGT	ATTCAACCTT	ACACCTTCAA	TGGCTTTGCC	TCTGCCTATG
157751	CTCCTAATGA	TCTTCACTCT	GAAGCTTGAC	TCTCAGAGTC	TCATTCAAGC
157801	AGTAAGCTCC	TGACATTTTA	TGCTGATGCA	TCTTACTCAT	AGAATCATAG
157851	AATGGCTTGG	GTTAGAAGAT	CATCTAGTCC	CAAGCCTCCT	GCCAACCACT
157901	AAATCAGGCA	CTACATCAGG	CTGCCCAGGG	CCCCATCCAG	CCTGGCCTCG
157951	AACATCTCCA	GATCTCCAGG	GATGGGGCAT	CCACAGCTTC	TCTGGGGAGA
158001	GGTTCAGCA	CTTCAACCACC	TTCTCAGTGA	AAACTTTCCT	CAACATCTAA
158051	TCTAACTCTA	CCTTATTTTA	GTTTTAAAAC	ATTCCCCCTT	AACCTATCAC
158101	TACCTTCCCA	TGTGAAAAGT	TGATTTCCCT	CCTTACTTAC	AAGCTTCTTC
158151	TAGGTACTTG	AAGGCTGCTA	TCAGGTCTCC	CCTGATCCTT	CACCTTCTCA
158201	GA CTGAGCAA	GCCAAGCTTC	CTCAGCCGAT	CTTCAGAGAA	GAGGTCTTCC
158251	AGTTCTCTAA	CCATCTTCAT	GGCCCTGCTC	TGGACTTGTT	CCAAAGGTCC
158301	ACATCTTTCC	TGTGCTGGGT	GCCTCAGACC	TGGACACAGT	ACTCCAGATG
158351	GGGCCTCATT	TGGGCAGAAC	AGAGGGGGGA	CAATCACCTC	CCTCTCCCTG
158401	CTGGTCACCC	TTCTTTTGAT	GCAGCCCGGG	ATATTGTTGG	CCTTTCAGGC
158451	TTCAAGAGCA	CGCTGCTGGC	TCATGTTAAG	TTCTTCATCT	GCCAGGATCC
158501	CTAAGTCCTT	CTCAGTAGGG	CTACTCTCGA	TGAATTCCTA	TCCTAGTATG
158551	GATACATATC	TGGGATTGTC	TCAACACAAG	TGCAACACCT	AGCACTTGGC
158601	CTTGTTGAAC	CTCATTATGT	TCACATGGAC	CCAATCCTCA	AGCCTGCCCA
158651	GGTCGCTATT	AAAAAAAACA	AGTGTCAATG	CTTCACAAGG	CTGGAAAGTT
158701	GGATCAGGCC	TACAATACCT	GCTAACATCC	AGAAACCAAA	ACCATGCATT
158751	CTGGCTCTGT	AATCATTTTA	CTAGATTTAT	TTAGTTTAAA	CAACAGGCCA
158801	GTTGTCTTCA	CAACAACAGA	AGATCACTGA	AATGAGTGAG	TGACTTGTTT
158851	TACTGTCCCTC	TCAGTAGACA	ATTGTGGTGT	AACAGTTAAA	ATGAGATTAT
158901	GATCCACATT	GTTCCTTTGA	AACGCCTAAA	ACTAAAACAT	AACATGATGA
158951	ACAAGGAAGA	CAAACTGTGA	TGAGATCTTT	TTGTGATTCA	TTAGAAGCTT
159001	TGAGTAGGCG	GGAACAGTGT	TGACATAGGA	GAGAAGGAAA	AGGAAGTGCA
159051	AACTGTACTA	TATTTCTAAA	TTTATTTACT	GCATAACACA	CAGGCACAGA
MENT exon L					
159101	ACCTGACTGA	GGACAAGACT	CAGGTCTTCT	CTCTCACGGG	ACCACAGGTA
159151	AACATTTAAA	CCAATTTAAA	TAACTTTTTT	GATGTTTTTA	AATGGTTATC
159201	TATAGCTTGT	ATGACAATGT	AAGTATATTA	AAACACACCA	GAGTTATTCT
159251	GTAGTCGGGA	GCATAATTGA	TCACAAGAAG	GAAAATCTTG	TCAGGACAGT
159301	AGCTGTCTTA	CTAATTAAAA	TGTTCAAGTT	GATAAAGGAG	TCTCATACTT
159351	CAGGTAAAGC	AAAGGCCATT	TTCATTCTGC	CTTGTATGAG	GTCAGGCCAG

Fig. 1-61

159401 GGA CTCAGAG GAGCAGAGTA AAACAGACAG ATTTCTATCC TGATGCTCAT
 159451 TTGGTCAGGT TCTCCAAGGA GAGGAAAGTCA CTCTGTTGGT ACAGATTTGG
 159501 TGTAGACTGG ATAACGACTG CCAGAAAAAC TGAAGTGGTT TGGTAACCAA
 159551 AATCTTGATA AATATCTGTG GACTTCAGAG ATTGTCCTGC AATTTCTGCA
 159601 GTGCCATTCA ATAAATATAA ATCTTTCTTT ACATAATAAT AACTACTACA
 159651 ACAACAACAT TTTCCAGTCC CTCTATCAGA AAACAACATC AAGAAGGCAC
 159701 TACTGAACAG GTAAGTTAAA GTTTGGAATG CTCATAGCTT ATATGCATAG
 159751 GTATTTGCCA GTTTCTGGGG AAAATAAAAAT TGCAAGAATA TAAAGAAGAG
 159801 ATTGTAGTTA GACTTCGTGA ATAAATGGT AACACTCTAA AAGCAAATAA
 159851 CAACTTTGCC ATACATTATA TTATCTGAAA TGGGTGACTA GCCAGAAAAA
 159901 TTCCATAAGC CTAAGAGTTA CACCTAAATA CATTCTCAGT ATCAGCTCCT
 159951 AATTCTATCT AGATCCAAAA TGAGGTAGTG AAAAGTTCAA ATGTCCCATG
 160001 TACAAAAAAC TACTTAAACT TCCCTAGGAA CATTACTTTG ATAATGAGTT
 160051 AAGAATGAAA ATGAACAAAA TATGCAGCTT ACAAATCCAC ACACTTTTGA
 160101 AAACCAAAGG CAGAAAGAAA CACAAATAAA AGGGCAGATC TATAAAGAG
 160151 GACATATCTA TAATCATAGA GAAATATGAG ATGGATAACA AAAACCTAAA
 160201 AGAAACTGCT GCTCCAGCA GGTGGCACAT GGTATGTGTA GAACATATAA
 160251 CGTACAATA GGCTATTAGT TTCAAAGGT ACCTACGTGC TCCGTTGCAA
 160301 ATGTAACATG TAAATGTAAA ATGTAAATGC AAATGTAAT AATATGCACT
 160351 ACATACATCA TTTTAGACAC TCAAATACTA CAATTCTGTC TGTTGCCTCT

MENT exon 1

160401 TTCCAGGCTG TAGCAATGGA ACAGGTCTCG GCATCAATTG GCAACTTTAC
 160451 AGTTGATCTT TTCAACAAGC TGAATGAGAC CAACAGGGAC AAAACATTT
 160501 TCTTTTCCCC TTGGAGCATA TCATCTGCTC TCGCCCTGAC ATATCTGGCT
 160551 GCAAAAGGCA GTACAGCAAG AGAGATGGCA GAGGTAAGTA GCTCTGTGAA
 160601 GCTATGATGC TCAACACTGC CCAGCACTGC TGTGAGATG CCCTGCTCCG
 160651 TTGTCATAGG GAAAACTAC ATTTGAGTTT GCACAAATGC ATTGCTATTG
 160701 CTGAGTGCAA TGGCTGTGGA AGGGATTTCA GCCTGTAGT GCACAGACAG
 160751 AAGCACTGTG ATGATGCTCA CAGGCAGGAG CAATACTATT CTTGTTACT
 160801 GTAGGGGATT TACATATACT AGAGCTCCAG TGTCCCTCTG ATTAGATCAG
 160851 AAGATAGCAC AGTGTGTTAT CATAAGGATC CAAACAAGAC AACCATTTTA
 160901 TCTCTTTTAG GTTTTAGGTC ATGCAAACTC TTTCATGTCA GTTTCTTACC

MENT exon 2

160951 TTTGGAAACC CTGTTTGCAG GTTCTTCATT TCACTGAAGC TGTGCGAGCT
 161001 GAAAGCTCTT CTGTGGCCAG ACCTTCTCGG GGGAGACCAA AAAGAAGAAG
 161051 AATGGTATCT ATTAAACATG AAATCCCAAG ATAAGAGTTC AAATGTCTGG
 161101 ATATAGTTTT TAAGAGTCCA CCATTTCTTG TTTGCAGCTC TCTTTATGTT
 161151 TAAAGTATAA AACCCAATAT ACTTCGCATC ACATCCAATT TCAGTTCCCT
 161201 TCACTCATTC AGACTCAAAA GTATAGAAGC ACAAGTCACT GGTATAATCT
 161251 GAAAGGATTG CAATATGGTA AATCAGTTAA TCAAATCATA AAAGGAGCCC
 161301 TGCAAACTGC AGTGGTGGTG AATTTGGAAA GATAAAAAGT AAGAGAGAGG
 161351 AACAGAAATT CTCCCCCAC ATCTACCCCT TAGCGTTTCA AAAACTTCAT
 161401 GCCAAAAATG CAACTGGTAA ATGTACAGTT TCTCTTTCCA AGGACCCTGA

MENT exon 3

161451 GCATGAGCAA GCTGAAAACA TCCACTCTGG ATTCAAAGAG CTCCTGACAG
 161501 CCTTCAACAA ACCCAGAAAC AACTACTCGC TGAGAAGTGC CAACCGTATC
 161551 TATGTGGAAA AAACCTACGC ATTGCTGCCT GTAAGTTGAA TGGTTTTATG
 161601 TCAAAGAAGA AAAAGAAAAA AAAAGAAAAG AAAAGAAAAG AAAAAAGAA
 161651 AAAAAAGTTT TGCAATTGTAT TCACTTACCA TTAATAGAAC AGATCTGAAG
 161701 CTGTCCATAA ATGCTGCAAA TGATGAGTCT TGGCTTCCAG TGATAAACTT
 161751 CATTGGAAAA TACAATTTGG TCTTCTCCA GTATATAAGA ATGCACTTGG
 161801 CTGTAATGCA GGACTCCTTT TCATGTAATA CAGCTTTATC ACTAGGAACC
 161851 TCAGTACATA CAATTGAAAA TGAGATATTA AAATACACAT ATCCAGGGGA
 161901 TTTGCACAGT CTTCCCTCCT TCTCCAAATA AAAATGGGAA CGAGAGAATA

Fig. 1-62

161951	AGAGTATTTTC	CTTTGGTTAT	TTCTTAACCA	TTAACTCACT	GCTCAATAGA
162001	GAGCAAAATG	CTAGATCCTG	CAATTGCCTG	TGTGCAAAAA	GTTAACAAGA
162051	AGTCCAGTAG	CTAACAAATT	ACTTTTTTGA	CTATAAAAAAT	ACTGTACAAT
162101	ACAGAATGTT	TCCTTCTTTC	GTTCTTTTTG	TATGCCATTT	TCCAGACATA
MENT exon 4					
162151	TCTACAGCTC	AGTAAGAAAT	ACTATAAGGC	AGAGCCACAG	AAGGTTAACT
162201	TTAAGACAGC	ACCGGAACAA	TCCAGAAAGG	AAATCAACAC	CTGGGTGGAA
162251	AAACAAACCG	AGAGTAAGTT	GAGCTCAACT	CCAACATCCT	TCCTCTTCCC
162301	ACTGTTCCCT	TCGGGACCTT	GTTCCCACTC	CTGTGACTGT	GGCATCCAGG
162351	TCATGCCCTC	TGGTGTGGGC	AGTAGATGGC	TGTCTGCTTC	CAGCTGCTTG
162401	CCTTGAGACT	GTGGCGTTTT	TTCAGGCAGG	AGCCAATTGC	TGTCAGCTAG
162451	CCAGGAGAAC	TGGGCAACAA	ACAGCAAACA	GACTAACTGG	TTTATGTCAG
162501	GGAAGTAATC	CAGGGAGTAG	GGCACTGAGG	CTTGCACTTT	TTCATAAGG
162551	AGTTGAACTG	AGTGGATAAA	GAATCAACAC	ATTCCCTCAC	TGTGTTACAC
MENT exon 5					
162601	TGGAGTAAAG	CCTGACTTTT	CTGATTTCAA	AAGGTAAAT	AAAGAATTTG
162651	CTGAGTTCGG	ATGATGTGAA	AGCCACCACT	AGGTTGATCT	TGGTCAATGC
162701	CATTTACTTC	AAGGCAGAAT	GGGAAGTGAA	ATTTCAAGGCA	GAAAAACAT
162751	CTATACAACC	CTTCCGACTG	AGCAAGGTAA	GCTCCTCTGG	TGTCCTCCTT
162801	AAAACAAGCA	GACTGGAGAC	TGCACCACT	ACCATCTTTT	ATTTTCATCCA
162851	TCCTTTAGGC	ATTCCTTGGT	AAACAGACTC	TCTGAAAAGT	TGTTTTACAGC
162901	AAAACATGTC	AGTTGTCAGC	TCACCAACAT	TTATGGAACA	TTAAGATGCT
162951	GCTCAGGCAA	AGGATAACTA	GATCCAGATG	GAACACAGTT	TCCAAAAATG
163001	CTAGGGTCAA	TTAAAGCCTT	TTTGCAAGAC	TGAGGTATAA	GAGCTACATT
163051	GTAAAAATCA	GATATTAAGA	GTCCATCCTT	CCTGCACAGG	AACTACATGC
163101	TATGCTATGG	ACGAGTGCAG	TACCCGCGCC	TCTGTGCTGC	ACAATCCGGC
163151	TGTGAATACA	GCTGCTAAAG	TATGGATGCA	GCAGCACAGC	TCCACTGGAT
163201	GGGTGCATGG	CCGAGTGAGA	CTAGAAGTAA	TGTTGCCAGA	GAGGAGATCA
163251	CAAAAAGGCT	GCACAACATT	TATCCTCTCA	CACCATAGCT	GTTTCATTGC
163301	TGTAATGTTG	GGTGCCTGTA	TGCCATGAAT	GCTCCATCCC	CCTAATTCTT
163351	GAAGATATTT	CTGACTCCCT	TCCTCTCTCC	TCTGTGGGTT	GATGTGCATG
163401	TTCTGGGGAA	AAGAGAACAT	CAGTTAGCTC	AGTCCCAGC	AAAATACTCT
163451	GGGAAAAGAG	CCAAGATCAG	CAATATTGTC	CAGTCAAGAA	AAGCCTTGGA
163501	AAAAGAATGT	CAAATCTCTG	TTACAAAAGC	TGCTTATGAA	AGTTTCCTCT
163551	TTACAAGGAA	TTCTTTTTTT	CAAGGAATAA	TTTTAACCGA	TAAATAAATA
MENT exon 6					
163601	CCTTACAGAA	CAAGTCCAAG	CCCGTGAAGA	TGATGTATAT	GAGAGATACA
163651	TTTCCAGTTC	TTATCATGGA	AAAAATGAAC	TTCAAAATGA	TTGAGCTTCC
MAR					
163701	<u>ATACGTGAAA</u>	<u>CGTGAAGTCA</u>	<u>GTATGTTTCAT</u>	<u>CCTACTTCCT</u>	<u>GACGACATCA</u>
163751	<u>AAGATGGTAC</u>	<u>TACGGGTCTT</u>	<u>GAGCAGGTAA</u>	<u>AAAGTTCTGC</u>	<u>TACATCCATT</u>
163801	<u>CTGTATCGCC</u>	<u>ACTCAGTCAT</u>	<u>CAGAACAAAA</u>	<u>AGGACAGGCT</u>	<u>GATGACCATA</u>
163851	<u>CGGCCCTTTC</u>	<u>TTTCTTTGGC</u>	<u>AGTTCATTCTG</u>	<u>GCAGAAGTAG</u>	<u>CGCACAAAAA</u>
163901	<u>CTTGACAGCAT</u>	<u>TATGTCTCAC</u>	<u>ATTTGCTTTG</u>	<u>CAGCCTGTTT</u>	<u>TCTGGTCATC</u>
163951	<u>AGTAAAAGCA</u>	<u>ATTTATATTT</u>	<u>CATATTTTCA</u>	<u>GCTGAATGTT</u>	<u>AAATACGCCA</u>
164001	<u>TTTAAAAATC</u>	<u>TGTTTAAATC</u>	<u>ATTAAAAAAA</u>	<u>AAAAGACAAT</u>	<u>CATAATTAAT</u>
164051	<u>TGGTTTATCC</u>	<u>TTGCAATTAT</u>	<u>CAAATTCTCT</u>	<u>TCATTTCTTA</u>	<u>AACAACAGCT</u>
MENT exon 7					
164101	GGAAAGAGAA	CTCACCTACG	AGAGGCTGTC	AGAATGGGCT	GATTCAAAGA
164151	TGATGACAGA	AACTCTTGTC	GATCTGCACC	TGCCTAAGTT	CTCACTGGAG
164201	GACAGAATTG	ACCTCCGTGA	TACTCTGAGA	AACATGGGAA	TGACAACCTGC
164251	CTTCACAACC	AATGCTGATT	TCAGAGGGAT	GACTGATAAG	AAGGATTTGG
164301	CTATTTCCAA	AGTCATTAC	CAGTCTTTTG	TTGCAGTTGA	TGAGAAAGGC
164351	ACTGAGGCAG	CTGCTGCTAC	AGCTGTAATT	ATATCATTCA	CAACTTCAGT

Fig. 1-63

164401	TATCAATCAT	GTTCTGAAAT	TTAAGGTTGA	TCACCCTTTC	CACTTCTTCA
164451	TCAGACATAA	CAAATCCAAA	ACAATCCTGT	TTTTTGGCAG	ATTCTGCTGC
164501	CCAGTAGAAT	AAATTATTCC	TCACTCCTAG	AGGGATCCAA	AGTTCACTTT
164551	TCAAAGGAAA	AAATGTGAAC	TGTAGTATTA	AAAGCTCAGC	CTTCAATCAT
164601	ATAGCCATAA	GTAAGGAAAG	TCTATGTCTT	TTTCCTTAAG	TAAGGCAGCA
164651	CCCAGACACC	ACCACGCGCC	TCAAGACTG	TCTCTCTACT	GCTCCTTTCC
164701	ATTATGCTCA	TGAAATTGCC	TTTTATAGAA	AGCAAATGCT	TGAGGTACAA
164751	TTGCTAGCCT	CTGTTACCT	TGCGTTTTGT	CCTTATTTCT	CTAAACTCTC
164801	AAGACTGAGG	TTGATAAGTA	TCCCAACCAG	CAAAAAAGAC	CAAGAAAAC
164851	ACAACAATGT	GCCTTATTGC	TACCTCTTAC	TGAAATGTGA	CCTAAACAAT
164901	TCAAATCTGC	TTCCCGTTTT	CATTAACATA	ATTATATGTT	TCCTGGCTAA
164951	CATCTGCACG	GTCTCCTTGC	TACCTGGATC	ATTGATAAGT	GTATGATTTG
165001	TAACCTACGA	GTGCCTTTCA	GCTAAGATAG	TCCCGGTATT	GACAGAAACA
165051	CCAGTAACAT	TTTTATGGAT	GCTTCACTTC	ATTATTTTGC	CATGATCTAC
165101	ATTTAAACAA	TAAATGAATT	TGGAAGTGTG	TTTATGCTAT	GCAAGATTCT
165151	GACTCACGTA	GCTCTTTTAC	AGCATCCTGT	ATAATGGGTG	GCTGACACAT
165201	ATTTCCATT	TTGTTATTTT	AAACCAACCA	TCACATCACC	GCTAACGACA
165251	AAGTGCTGAG	GCACTCTAAT	AAACCAGGGT	CTTACTCCCA	CTAGATTTCA
165301	TACAACACTG	AAAACACTGT	CGTTCAACGT	GTTATCGTAG	ACATATACTA
165351	GACACACCAA	TTCAAATCAA	AGCCTGTGAT	AACAGAGTTA	AGGCATTTGC
165401	CCAGTCTTGT	TCAACAGCTT	CACCAATAGT	CTAGATAAAG	GGATAGAGTG
165451	AATCCTCAAC	AAGTTTGCTG	ACAATATGAA	GCTGGGAGGA	GTGGTTGATA
165501	CACCAGAAGG	CTGTGCTGCC	ACTCACTGAG	ACCCAGACAG	GTTGTAGAGT
165551	TGGGTGGATA	GAAACCCAAT	GAGCTTCTAC	AAGAACAAGC	ATAGGGTGCT
165601	GCAGCTGGGG	AGGAATAACT	GCATGCATCA	CTACAGATCA	GAGGCTAGCC
165651	TGCTGGAAAA	AAACCTCTGA	AGAGAATAAG	CTGGGTGTCT	TGGTAGACAA
165701	CAGATTGGCC	ATGAGCCAAC	AGTGTGCCCA	TGTGGCCAG	GTGGCCAATG
165751	GTATCCTGGG	GTGAATTAAT	AAGAGCGTGG	CCAGCAAGTT	GAGAGAGGTG
165801	ATTCTCCCCA	TCTACTCTGC	ACTGGTGAGG	CCACATCTGG	AGTACTATGT
165851	CCAGTTCTGG	GCTCCTCAGT	TAAAGGAAGA	CAGGGAAGT	CTGAGGAGAG
165901	TCCAGTGGAG	GACTGCCAAG	TTGATTAGGG	ACCTGGAGCA	TCTCCCATAC
165951	AAAGAAAGGT	TGAGAGACCG	CAGACTATTC	AGCTCAGAGA	AGAAAAGACT
166001	GAGGGGTGGA	TCTCATCATT	GTTTATAAAT	ATCTAAAGTA	CAGGAGTCAA
166051	ATGAATGGAC	CCAGACTGTT	TTCAGTGGTG	TGCAGCACAA	GGGGGCAATG
166101	GCTAAAAACT	GCACTGCAGA	ACGTTCTATA	CAACATGAG	GAAGTACTTC
166151	TTTATTTTGA	GAGTGACAGA	GCACTGGAAC	AGGCAGCCCA	GAGAGGTTGT
166201	GGAGTCTCCT	TCTCTAGAGA	TATTTAAGAT	CTGCCTGGAT	GCTTTCCTGT
166251	GCAACCTGCC	GTAGGGAAC	GCTTTAGCAG	GGGTGGACT	GGATGATCTC
166301	CAAGAGGTCC	CTTCCAAC	CTATGATTCT	GTGATCTGAA	CTTGCTTTCA
166351	CTGTAAGCAT	TCAGTTTCCC	ATTGTTGACC	ACTGCTTATT	GCACTATCAG
166401	CGCCCCATGG	ACCTACTGAG	AAAGCTCATT	TTCTTCTGCA	TTATGATACA
166451	CAAGAAATAA	AAGTCTGACC	AGAGCAAATA	GCCCAGAAGA	GTGGCTTCCA
166501	AACATCCAAT	GCTGTATCAG	CAACATCCAT	TTCTTCCATT	AGCTTAGGAG
166551	GGCAGTAGAT	GTGCTATCTT	ATGCCTATAA	GGAATTGGAT	AAAGTTTTGT
166601	AGCCATTATG	ATGCCACCT	ACCACACGTC	ACAGGACATT	ATTTCAAGCA
166651	ACAAGATCTG	AATGCTGGAG	GGAAGTACTT	TAGAAATATA	TACTCCTAGC
166701	AAAATTCCAC	CTGTAAC	AGCTCACTCT	ATGCCTCAAC	AAAAGGTAGA
166751	CTATTTGGAA	ATATATCTCC	ACCCAACAAA	GTATATATAC	GCCGCTTCT
166801	CTGTACACTG	TGCTGCTTCT	AAACTCAGTG	CCCTCCCTCA	CCTGTAACCC
166851	CCAGCTCAGG	GTTTCAGCTG	CTGTCACTGA	GGACCCACTT	TGGTTCAGCC
166901	CAGCTGCATG	CTACTGACTC	AGCTTTGCAA	AGAATTGCAC	ATTGTAAATT
166951	GTATAAGTGT	GGAAAAGCAC	ACAAGTGAAA	ACTACACAAT	ATAAGTAAAG
167001	TAAAAACACA	AAGAAGTTAC	TGTCAGGATG	GAATAGTCAG	CATAGCAAGG
167051	ACTCGAGAGG	ATTGCACGTA	GGGGTGTCAA	ACTTCAATTA	AAAAAAAGTT

Fig. 1-64

167101	AAGAATTGGA	ATTCTCCAGC	TTGTTCAGGT	CCTTCTGAAT	GGCAGCAAAA
167151	CCCTCTGGTG	TATCATCCAC	CCCTCCAAAT	TTTGTATTGT	CTGCAAATTT
167201	GGTGAAGGTG	AACTCTATCT	CAGCATCCTG	GTCATTAATG	AATGTGTAAA
167251	TAGTACTGAC	ACTGGTGTTA	ACCGCTGGAG	TACACCACTA	GTGACTTCAC
167301	CTTCAGCTGG	ACTTCATACC	ACTGATCACA	GCTCTCTGGG	CCTGGCTGGG
167351	CTCACTTATC	TAACCCATCG	TTTGTTCAGC	TGGCCATAAG	GATATCAGAG
167401	GAAAAAGTGT	TAAATGCTGT	TTCTAAAAGT	AAGGCAAACA	ACATTTAGTA
167451	TTCTCCCCTC	ATCAAAGAGA	CTAGCTGCCT	CATGGTAGAA	GGCAATCAGG
167501	CTGGCTAAGC	ATGACTTCCC	CTTCATATAT	CAATCCTGAC	TACTCTCAAT
167551	CTCCTTCTTA	CTCTTCATGA	GTTTCACAGT	AGTGTCCAAC	TCTGTGGTAG
167601	CCTGACCTCG	CAGCAAGCAG	AAATGGCAGA	GAGAGTACAG	AATAATAAAG
167651	ACAAGGAATG	TTACAGTGCT	GGTGTATTTT	TAGTACTCAA	GGCTTGGATG
167701	CAGAAAAAAA	CCAGCAACAA	AACAACCTAT	TTTAGAACTA	AAATGCAAAAT
167751	GTACCAATAT	TTTTTAAGGT	TTTTATTTCA	CCATCAGTAA	CTGGAACAAG
167801	AAAATCCCTT	TTAAAATATT	ATTTATACTC	CAGTCAC'TTA	CAGGTCTATT
167851	GCAACCACTG	TGATACTTAT	TCTCCTTTCC	TCTCTTGTAG	GACAAGGCTG
167901	AATGGGACTT	CCCACGGAGT	AAAAAACTGT	AACTGGACTT	AATCTAGCAG
167951	TGATTTTAAA	TTGTGCTGCT	TGTTAACCAG	GCATAAATGC	CTAGATGTAC
168001	CAAACTATAG	AGTAAACTGA	TCACAGGTAT	AGGAGTACAA	CAGCAGAATA
168051	GAAAGATACA	GCCTCACATC	CACACTGAGA	AAGGTGAGGA	TGAAAGATGA
168101	ATTCATGAGA	AAGCCCGAGA	AAAGTGACTT	GCTTTTATCAG	AAAAATTTTA
168151	TGACCATTGT	TCAGAGAGCA	ACCTATTTGT	GGCCAGCAGG	GGTTTTGATG
168201	CTGCAACACA	TTGTTTCTAC	CATTCTGTTT	GCAGTAAGCC	ACTCTTTCTT
168251	CTTCTCCACG	TGGCACAGCA	AAACCAAGAG	CACCTTTTCT	TTCCCATGTT
168301	TTCTCCCCTT	TGAAACTCTA	CTCCCTCTTA	CTAAACAGGA	TCTTGCAGCA
168351	GATACCATAG	AGTGTCCACA	CAGTTTGGGC	ACCCTTTTGT	AATTTTCCTG
168401	TATTTTGGCC	CAATCTTTGT	AGTTTGTAGT	ACAGTAATTA	TTGCTATTAA
168451	CTGCTTCTTT	ACCTCTCCTA	AATATTCAGC	CCAACAGGTA	ACAGCAGTTT
168501	CAGATATGTA	GCAGGAACAT	TTCTTAACCA	CATAACTAAA	CATAATAGCA
168551	TTGATAGAT	TTCTGAAGAA	AGAAAATGAG	ATTGATATTC	CAGGTAGGAA
168601	AAATGTGCAC	ACTTAGAGAG	AGAGCATGTG	AAAAAAGATA	GGTATACATG
168651	TCACTCCTGA	AACCTTGTCC	TGTGTATGTA	TCAGTCACAT	TCAAAGTGAA
168701	TAGCACCATA	AAAATTTAGT	TCTAGTTCTA	GATATGGTTT	TGTACTCCTC
168751	ATACAAATGC	TTTTGCACAT	AGGTTGACTG	CATGCTGATA	ACTGGTTTAC
168801	TTTCCAGTGT	CATAACTGTG	AGCAGAGGGC	ACTCCTAAGG	CAATTCTGAG
168851	TAACCAAACA	TGTACTAGAA	AATATATACA	ATGATTGCAA	AGGAAACTGA
168901	TCAATGCATT	TCATCCAAGC	CACGCAGATA	AAAACGGGAA	TTGCTAATTA
168951	CATTGGTTAA	AATAAAATGC	CTGTGTACAG	ATAACTGTCT	TGCATTATAT
169001	CTTTACTGAT	CTGATTCCAT	ATAACATGCT	ACTTCGACTC	TCTACTACAA
169051	AACAACAAGC	AGTTTCAGTA	AATCAAATAA	TTACAAGCAG	AACTTCCAAG
169101	CAGCTTGGCA	GCTTTTTCGTG	AGTGGCCCAA	ACTCCCTCCC	TTCATAGAAG
169151	ATAATAAGCT	TGGCACAGTG	CAGGGCCTGT	AGGTTATCTA	AAGCATCTTC
169201	ACCTCCTCTG	CTAGGAGGAA	ATGCATTCTC	TTAAAGCACC	ACCCACCAGT
169251	TCGAATAAGT	ACCATGCTCA	CGTAGACTTC	ATCACTTGCT	TTAGGTGACT
169301	GTGGGAATAC	AGTCTGAGTC	TCCTTGAGGA	TCTGACTGCT	GAGACATAAA
169351	AGGATTAAGG	GTAAAATATC	ACAACATAAG	GGCTTTGTGT	GACCTGACAA
169401	CCACAAGTAT	TCAAATCTTT	CCACTCTGAA	ATTTGACAGC	AGGATGAATG
169451	ACACTAACAG	CCTACTTCTG	TACTCCTTTT	CAGCTAAATC	TTTGAGATTA
169501	GTTTCTCTTA	ATTCCCTAGT	TCATAGAGTA	AAAAGAAAAG	GAAACTGTAA
169551	AATTATTTCA	ACGTGTCCCT	TGTCAATGCA	CTGCAACTCT	ATTCTTTTCT
169601	GCAATTCTTA	CATACTTGCA	GACAAAGATT	GAGGAGGGCA	CCACTGGGAA
169651	AAAGGCATAC	CAGGCTTCAT	GTTTCAGGAC	ACACACCAAC	TAACAGTGGT
169701	TTTGAATTGG	CCTCTCTACC	CTCATCTCTC	TAATTCTGAA	AGCCAGTGAC
169751	GGAGAGAAGA	AATGGGAATA	AATGAGGGAA	CAGGCATATT	AATACAAGAA

Fig. 1-65

169801	GAGGATGTTG	GGAAGAGAAG	GGAGGTGCAA	CCATTTCTAC	ATTTCCAAAA
169851	GTATTCTGTTG	CCTCACAGAC	CGCCACAGAT	CCTGACTGAA	GAAACATCTT
169901	AACTCTTCCC	TCTCTCACAG	GATTTTCAGGT	AGTGTAATA	TTCTTATCTA
169951	AATAACCAGC	TTTATTTTGA	CAGTCTTAAA	AATTCATATA	AATTTTCCAG
170001	AATGGAGAGG	GTAAATGGTA	ACTTAAATGT	CATGCAGGGA	AATGGAGCAC
170051	TCAAGTCTTC	ATACAAACTG	CAGCCTTTAG	GAAAACACTG	CACAAAGGGC
170101	ACAGTGTTCA	GGATGCACAT	CCAGACTGGG	CAAAACCTGT	GCAGCACATA
170151	GAGAGCACAA	GAGTTTCCTC	ACTTGCAGGC	AGGGTGCCCT	AATCACCAGG
170201	CTACCAGCTG	ATTTAGGATC	AGAGGACTGA	ACACAGAACG	CAGATGATAA
170251	TGCACTCCTA	CTGATCCTGG	AGTTGAACAC	ACGTGACTGC	ATGACTCCAT
170301	AACACAGTGT	TTTAGACAAT	CAGCACTGTC	CAAGCCACTG	CTTTATTCTG
170351	GTTAAATAAC	TACTGGATCA	GCACCCAGCC	TTTTCCTTTC	CTGAATGACC
170401	AAAGTGGCTA	TTAGACAGGC	AGTGCTGATA	CAAAACACACA	TGCTCTCTCA
170451	AGCCCTAGAA	ATGCTTGATT	GCTGTGTGCA	AATTCAGTTT	TGACACGCTC
170501	TGGCAATAGT	GGAGATACTA	GTTTGAAATT	CTTTAAGCAA	AAACATTTCAG
170551	CTGAGCCCAG	TTCTCTAGTT	ATGCTCTGGG	AGTATCTGGC	TGATCAGCTC
170601	CTCCAGGCAC	AGCAGTAAGA	AATACCAGGC	TTAAGGTAAA	ATGCTTAAGG
170651	TATGAGCTAG	GCTGCAGGGC	ATTACCTCT	GAAGCACACC	TGAGAATGAT
170701	CCAAAGCTGT	TTTGGAGCAC	TGGGAAGCTT	TGATATCCAA	ATTTAAGAAT
170751	CCCAAAAGCT	CCAGCTATCT	CTAAGACTGA	ACAGCAGCTG	GTTTTGAGGA
170801	CTGCTGCTTT	TGATTTTCAGC	ATGCAAATTG	TGAGTGAAGC	TGGACTGAAA
170851	ATTCCACTCA	TTCTCATTTGA	CCTAAGGCAA	GTCTTTCACT	TGATGCAATC
170901	CTGCACCGAC	AATGGAAATT	TCTGCATTTA	TCCTAATATT	TGTCAACAGT
170951	ACTAAATTCA	TCTAAAATAT	GTTAGTTAGA	ACCACGAACC	TATTCTGGAT
171001	CCAGCTATGA	AAAATTACTT	TAACCCTGGG	GTTTCTATGT	TTTTGTTATT
171051	ATCTTTGATT	TTGTCCCATA	AAGAGGGAAG	CAGAAAAGAGA	ATGGGAAATC
171101	TGCAGGTTCT	GATAAACCAG	CACGAAAGTA	GAACAGAGCT	GTTGCTTAAA
171151	ATGGGAACTG	TTTGGAGTTG	TATGTAAGAC	ACAAGAGCTT	ACTTGAAAAA
171201	CAGTCATTAA	CAAATCCAGC	TACAGTTGAC	AAATGCAGGC	CTACGCTCAC
171251	AAAGATCAAA	TAACAATCTA	CAGATCTCCA	TCAGCCTTCT	AAAGCATGTG
171301	GCAAATGGCA	TGAATTCGCA	ATAGTTCTTT	CAGCAGAAAA	TAATGCAGTT
171351	TAAGGAAGTA	GGAATAAAAG	CTCAGCGCAG	CACAGTGGGA	AATATTTCTA
171401	TTTCGCTCCC	TCAGAATGGA	AGGATAATTC	TAAGAAACTT	AAGTAAATGC
171451	TTTTTAAGAA	CAAGTTTGGT	TTGGGAAAAC	GTTCTTAAAA	TAGTGTTTGT
171501	CTGATGATGA	ATAAGCGAAA	CGGCTGAAAC	AAGAATATAA	GCATTTAACA
171551	GTGATGGGAA	AGGGAGAAAT	AGCGTAGGTC	TTAAAAAGGG	ACTTGCTATC
Z1 exon 1					
171601	TGACTGTACG	TGGCGTTTTG	GCCATTACAG	AGCCATCCCA	TCAGCGTGTG
171651	TACAAGGGTG	CAGGCAATCT	CCTACCAGCA	ACTTCCCATT	TTGTTAGATG
171701	TTGTGAAGAT	GCAGTCATCA	CCTCCCTCTG	CTAATCATTC	GTCTCAGGCT
171751	GTATTGATGG	AGTGTCTTTC	AGCATCAACC	AACAGCTTCA	CCCTGGACCT
171801	TTACAAAAAG	CTGGATGTAA	CTTCCAAAGG	ACAAAACATT	TTCTTTGCTC
171851	CTTGGAGTAT	TGCAACTGCT	CTCGCTATGG	TCTATCTGGG	TGCAAAAGGT
171901	GACACAGCAA	CCCAGATGGC	TAAGGTAAGT	TCTGAACTTA	GCAGTGTATC
171951	ACTTAAAGCT	GGCTCCCACG	TGACTTGCAT	TATTCACCTG	CCTACGTGGA
172001	ACAAAAAGGA	GCAACATGAG	AGAACAGTGA	TCCGCCATCA	TGTTGGGTGC
172051	AAGAAAAAAC	ACTGCATGCA	GTCCTGCAGG	ACACTGTTGT	TCCAACCTAT
172101	TTCCAAGAGC	CCCCTTCTCT	GCTACCACCT	CTACCTTTAG	CTTAAAATTG
172151	TTCTGGCAGA	GTGAAGCTAT	GGACATTAGA	GACTGTCTTC	TCATTCTCCA
172201	CACCCAGTTA	GTAAGTCCTC	TGAACCCAAG	CTTGGCTGCA	CAGCAGCAGC
172251	AGCAACATCT	TTGCTTGTGA	CATGGTTAGT	CCATAAATAA	GGTAATACAC
172301	CCATGAAGAA	GGGAAGGTTT	AGATTGGATG	TCAGGCGGAA	GTTTTTCACA
172351	GAGAATGGTG	AGGTGCTGGA	ACAGGCTGCC	CACAGAGGCT	GTGGATGCCC
172401	CTTCCCTGGA	GGTGTTC AAG	GCCAGGTTGG	ATGTGGCCCT	GGGCAGCCCC

Fig. 1-66

172451	GTCTAGTATT	AAATGTGGAG	GTTGGTGGCC	CTGCCTATGG	AAAGGGATTG
172501	GAGCTTCATG	ATCCTTGGGG	TCCCTTCCAA	CCCAAGCCAC	TCTACGATTG
172551	TATGAATAAT	GGGGATATAC	TAGAAATGAA	AATATGATAT	CATTTATAAC
172601	CACTTTTGCA	AAACTTTCGG	TGATGTACTC	CTAGATTATA	TGCATTTACA
172651	TAAATGCATT	TATCTGTGTA	ATGTACTGTA	GAGTTGTACA	TTGGTGCCTC
172701	AATAGTAAGA	CTACAAACCA	TCCTATGTTG	TTTGTTCCTG	CTGATAACAA
172751	TCTGAAAATA	AATTCCACAT	TGCTAAGCAT	GAATTGACCA	TTTCTCCAAA
172801	TCAATCCATG	TCTGAGCAAT	CACATTGATC	TGTTATTAAG	TAGTAAATGA
172851	CTAAAATTAA	TATAACTATG	ATACGGTTAT	AGAATCTAAA	TCTAGACCGA
172901	GGTCTTGTTT	TCTATAACTT	TAATAGACTA	ACATTTGTAC	GATGGCTAAA
172951	TTATCCCTAAG	TAGAAAACCTA	ACATCATTAC	GTAACACTAG	AGCACTTCTA
173001	TCTTCACAAA	ACAAACTGTC	CTTAAGAAAA	TTTATCACTG	CCACAGGTTT
173051	TTCATTTTAA	CCAGACTGCA	AGAGAAGAAA	GTCCTTCTGA	GATGACAGCA
173101	CCTTCTCTGC	GGAGCCCCAA	GAGAAGAGAC	ATGGTATTTA	TTTTGACAAG
173151	GCTCACAGAA	ACAAATCTCG	GAGAATGGGA	CAGCACAAC	GCCTTAACCC
173201	TCTGAAATTT	GTCTGTCTAT	ACCTACTGTC	CTATTGCAGT	AAGAACTATA
173251	CATAAAAAT	GTGAACAAGC	AGGTAATATT	ACTGTAAAC	TCACGAACTC
173301	AGAACTTCAA	AGCAGAACAG	AGACACCAGA	AGCATTCTGA	TTGTCTTTTA
173351	CACTTTGTTA	CTTGCTTTTA	GCTGCTCTAT	GGCAATAGGA	ATACCTAATA
173401	TTTTACTAAC	TTCAGGATTT	TTTTTTTTTT	CTGGGCTGTA	AAACAGCCAT
173451	TGCCTTCACA	TCTGACTCCA	GCTCTGCTCT	CTTAAACTCT	GTTCCACCTT
173501	TGCTATGCAT	GCACACATCA	GGCAAACAAA	ATTCCCCTGT	AAGCTAACAC
173551	ACACTGATTC	ACCCTTGCTC	ATCAGCTCCC	CAGAGACTTG	ACAGCAGGAG
173601	GAACTGCACA	GAACTCCTTA	CGCCTCAAAG	GTCTGTCAAC	TCAAACAAGC
173651	TGCAATTCTT	TAGCACAGAA	ACTAAGAAAG	CTCAAAGAAA	CCAAGTTAGA
173701	AAAACTGGAA	ATAAAAAGGA	GCAGTTACAT	CATTCTCCAT	CTAGATGGCC
173751	GTGGATTAAAT	ATTTAAGATA	AATCATTATG	TCCACATTGA	TTTTAGCTAT
173801	TCACTGCCTT	TCTAAGTTGC	ACAGCAAGGT	CTGCCTGATG	TAGCCTTCCA
173851	GACATTTCTC	TCCATTACCT	CCTCACTATG	TACCCATTGC	CTTGCAAAAC
173901	CTATCTACTA	TCCTGTTCTC	TACCAAGTTC	TTCCCCACAT	GTCCTTTCTG
173951	AAAGCCTGTA	CCTCTGCCTG	TGTGAAAAAA	TACCAGAGGA	AGGAATGCCT
174001	CCTCACCAAT	CTTATGACAA	GCCCCCATGC	ATCAGCAGCA	AAGAATCTCG
174051	GTGTCTCACA	TGTAGCGCAT	GGTACATGCC	ATGGAGCAGG	AAATTATACT
174101	GAAGCAGCTT	ATCCCTACAC	TACGAAAGCA	ACAGCTGACA	AGCAAGCTCC
174151	TGCTCCCTAA	AACCATCACC	AAGGACATTC	TGGACAGGTT	CCTTCCAACA
174201	TCCAAGCAGT	AACAGCAAAA	TTACATCAA	ATAGAAAATT	CGAATCAACT
174251	CAATTACATG	ACATCAGTAT	CTGTCTGAAC	AGAGTAGCTC	CTCAAAAGCT
174301	GCAATGTTGC	CTTAATGATT	TTTGTGATAA	TCAAAATTAG	GCTTGACTGT
174351	GACTGGAATG	AGATGACCCA	ATATCCTGGG	TGCACCATCT	GAGGACAGCT
174401	GATGTCCCTCA	AAGGTGTAAG	CAGCTCCGCA	GAATCAAATC	ATAACCCAC
174451	AGACATAAAA	CAATGTATCC	AGTTACACAC	AGTGCTGCAA	AAGTACCAGA
174501	TACCCGAAGA	AGAGCTCCAT	CCCTGCACAC	ACTTTTTTAA	TTAAAATGAC
174551	CTGGGGATTT	TAAATAACCA	TAGAAAGTGT	AATGCTTCAG	CCAAAAATAT
Z1 gene exon 2					
174601	TTCAATACTA	ATTGGTGCCT	CTTTCCAAGG	GTCTTGAGTA	TGAGGAAACT
174651	GAAAACATCC	ACTCCGGCTT	CAAAGAACTC	CTGTCTGCCA	TCAGCAAACC
174701	TAGAAACACT	TACTTGCTGA	AAAGTGCTAA	CCAAGTGT	GAGGACAAAA
174751	CCTACCCATT	ACTGCCTGTG	AGTTGAACGT	TTCTGCTTAA	GAATGTTTTG
174801	ACAAAGAGTA	TTTGACGTAC	ATATTTGACA	ATCATAATTT	TCCAAATGTT
174851	CTGCCTTTTA	AATCTACTGC	AGCCTTTAAA	ACTGTAAGAG	TTCTACAGTT
174901	GAACTACAGA	AAGCTCCTGT	CTCTTTTGAG	CCTATTTCTT	GTTAGCATCA
174951	CTGTTGGTTC	ACTTCTCCTC	TAAAGGAAGC	TTCTCCATAT	CAGTGGTCAT
175001	CTTCTCCCC	CTTCTCACTA	TCTATTACAT	TCTAGCATTT	CTGAGATTGG
175051	AGGCCAGAGC	TATATAGAAA	AGTCACACCA	TACCTTTACA	GAGCGGCATA

Fig. 1-67

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175101 TTAACGTTCT CCCTTTTATT ACACTGTCAT TTCCTTCAAC TTTTCACATC
175151 ATATTGCTT GTTTGACTAT TACTGGGCAG ATTATTTTTT TTTTTCATGC
175201 AACTGTCCAT TAGAACTTCA ATACCTCTTT TCTAAAGCAA TAATCATCCT
175251 TATTAGTATG CTTTGCTGGA TCATTTTCAG ATGTTTCAAT ATTGATACTG
175301 TAATCTATTT CCTTCTTCTC TTAGTTTCTA GCCTTTTAAA CAAGATCTTT
175351 CTCTGTAGTC CCACGGATAC TCAGCTTCTT CAAAAGCCTT TGGTGAGAAG
175401 TCTTCCAAAA TGCCTTTTGG CAATCCTAAT TGGCTGTAGT GGTTTGACCT
175451 TCTCATTGTC AAGCTTCTTT ACACCTTCAA AAACCTCCAA AAGATTTCATG
175501 ATGTAGGACT TATTGTTACA AAATGCTGTT CCAACACATC ATGCTTACCT
175551 ACGTGCCCAG TAGGCCTGCT TATCCATTG CCCTGTACAG ACTCATGAGC
175601 TTGTAATTCT GTGTATCTTT GAAATCTTTT TAAGAAATGG CACTGTATTA
175651 ATCATCCTCC AGTTTCTTGG AAGGTGCTGT TAAATGAGGT TAGCGTTCTT
175701 TCATCTTGGA GTTAAGTTTC AGTCTCCTGA GTAATTTCTC AGTCATTAAA
175751 TTCAATCAGC CTTACTGAAT GCTTGTTGCT CATGTTCTGC ATAATTTTGT
175801 GTAACCGTGG TTTAAGACTA ATCAGGGAAT TTCCTGCCGG GAATCTCCAT
175851 GAACAGTTTC ATAGAAGACA GTAATGTAAA AGTCAGTTCT AGTTTATTCT
175901 ACCATAACAT TCCCTTCATA TCTGACCCTC TACTGACCTC ACAAACCTCT
175951 GGCAGCTTGA CTCTGAAGCA AATCTTAAAA CATTGTTTCA ACTGTCCTTG
176001 AAGCTATTCT TTCTTCTTGT ACTGAACTCT GTCATAAAAC ATAAAAATGT
176051 ACTTCAAGTC AGTCTGAGAA ATCAAAAATA ATTTAAAAAA ATGTGTAGAA
176101 TGTTTATCTC ATAGGATTTT AAAATTACAA ATTTGCATGT TGGATTTAAA
176151 ACACAAAAC TCAAGCATC ATTTTTTGTG AAACACAAAT ACTGAATTTT
176201 TGATCAGTCC TTGCTTATTA TTTAACACAG AATCATAATC ACAGAATCAT
176251 AGAATGGCCT GGGTTGAAAA GGACCACAAT GATCATCGAG TTTCAACCCC
176301 TCTGCTATAT GCAGGGTCAA CAACCAGCAG ACCAGGCTGC CCAGAGCCAC
176351 ATCCAGCCTG GCCTGGAATG CCTCCAGGGA TGGGCATCCA CAACCTCCTT
176401 GGGCAACCTG TTCCAGTGTG TCACCACCCT CTGTGTGAAA AACTTCCTCC
176451 TAATATCTAA CCTAAACCTC CCCTGTCTCA GTTTAAAAAC CATTCCCCCT
176501 TGTCTATCA CTGTCCACCC TCATAAACAG TCATTCCCCC TCCAGTTTAT
176551 AACTCCTTT CAAATATTGG AAGGCCACAA TGAGGTCTCC CTGGAGCTTT
176601 CTCTTCTCCA AGCTAAACAA GTCCAGTCCC CTCAACCCTT CTTCATAGGA
176651 GAGGTGCTCC AGCCCTCTGA TCATCTTAGC AGCCATCATC ACAGAATGTA
176701 TCAGAATTTG TTTTACGGGT TATCTAGTTT CAAATGAATT ACATTTTCTT
176751 CCAGTATGTA TTAGTATGTA TTGCATGATC TGTTGAGATG ATCTTTTTCT
176801 ACTATTTTTG TGCTTAAATT TAACTATATA AGCATAACATT TTCCAATTCT

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Z1 gene exon 3

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176851 ATCCTTCAGA AATTTTACAA ACTGATCACA AGGTACTACC AAGCAAAGCC
176901 ACAAGCTGTA AACTTTAAGA CAGATGCGGA ACAAGCCAGA GCACAGATCA
176951 ATTCTGGGGT TGAAAACGAA ACTGAGAGTA AGTATCGCTC TGATGGCTTT
177001 TTCTTTTCTC ACTTCAAAAT CATTTGCATT TCCACTTGAA TTGCTCTTGC
177051 AGTAAGGGAT CCATAAAGGA TGGAACTGT GGGGAAATGA TGAACAAATT
177101 GCAGTTAAAT GTCTTGAAGA AAGCCAACCA CAAAACATA CTGCTGCCCC
177151 TTGCAAAGTT TTTCCCTTGA TTTTTCATGT CATAGTCTCT TCTGAAGTAT
177201 TTCTGTTTAT AAGGAAGCAG AGTGGATACT ACATGGCTCC ACTCTGATCA
177251 GTGAAGGTTT TACTTCTGCA AGCTTCAACT GGTTGCAGCC AACTCCAGAG
177301 AACTTCCACG CTTTACACAC TTCTTAACAT CTTTACTAC TAAAACGTAA
177351 ATAAATATGG TTTAAAAAAC AGTGATGCTT CAAAAGCCAT TTATGTATGT
177401 ACGCTGTGAA AAATGCACAG GGAAAAAAA TCTCTGAGTG TAAACACTTT
177451 TGTTAGATAG CTAGGCATAG AGAAAGCACA TCTGAAATTG GTGAGTTGTG
177501 CATTGCGAGC GAATTAACAG TCCTATCTAT TTGATTTTAA AGGGAAGATC

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Z1 gene exon 4

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177551 CAGAATCTGC TACCTGCAGG ATCTCTTGAT TCTGACACTG TATTGGTCTT
177601 AGTAAATGCT ATTTACTTCA AAGGAAACTG GGAAAAGAGG TTTCTGGAAA
177651 AAGACACATC CGAGATGCCC TTCAGATTAA GCAAGGTAAA TTCCTTCAAA

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Fig. 1-68

177701 ATGTCTATTA TGGCAGAGCA AGAATCCTCT AAATATTTCA CCTGCATTTT
 177751 ACATCCAGT ACAACACTAC TTACAGCAGT AGCAGATGGT ATAAACTCTG
 177801 AGAACAGCAA CAGTGAAAAT AAATCAGCAG TCTCATTTAT ACAGATGCAT
 177851 GAGATTAGGA TTTTCAGTTA AGTTAGTAGC TTCTTGGCAC CAAAACAGTT
 177901 GAAAACACCA TGGTTAAGCA GCTTAAGGAC AAGAGAAAGT TTCTCTAAGT
 177951 ACTGAGATAT CATTTTCAGA AGGAATTGAG CTAATTCTGA GAGCAGTACT
 178001 TCGACACCTA GGTCTCTTTT CATGCTTTTC AGACAGAGGC TGTATAATGT
 178051 GAGCTCAAGT AGCCTAAGTG TTCTTTCCTA ATGCCCTGGC CATTGCGTAA
 178101 AACCTCACGT GGAATTCTCA AGAGGGTTTG TCATTTTAGC CAGATGCGTA
 178151 TGGATGATGT GTTCAGCATG CATTGTGGGC ACGACTGAGC TTACAGTATC
 178201 TCAGTGATTG TGCATGGACA ATTTACAGTA GCTGACAGCA TGCATACTTT
 178251 CGGCTTGTGT CAAAGGTGAG CAAAAAGAAT TTTCAATCAG AACACGTTGT
 178301 TTGACATGAG ATTACGAGTG CAAACACCTT TTGTATGTCT GGTGATGTGA
 178351 AGCAATTGTG TCGATACTGT GGCTGTGTTA TCTGAAACCT ACTACATTGC
 178401 ATGCGCAGTT TTAGGACCTG TAATAGTACA CGGTGCACAG AAAGGGTTTC
 178451 ATTCACAGAG TGGCTGATAG CAAAGCCTGC AAACAGATAA GCTTTTGCAC
 178501 TTGTGTAACA ATGGAAAAGA GAGAGTGGAT ATATCAGTGA AGGTCTCTGA
 178551 GCATAATACA GCGTAAGAGT TCAGATGATT ACTGTCTAAC GCGATTTTCAG
 178601 TTGGTAATCC AAACCTCTAC AGTTTGGGAA AGAGAAAAAA CAAGCAGAGG
 178651 TCACAGCAA TATGGTCCAT AGGTAAATTC AATCAATCAG TGCTGTCCGG
 178701 AAGCATACAA AAGAGTTGAT GACATCCAGA GAATGAAAGT CAGCATTTTT
 178751 TTCCCCTCCC AATCAACACA TTCACTCAAG AAATGTAAAG TTTTGGGGAA
 178801 AACTTGAAAC ATACAAAGTA GTTTCTTGTT TACCAAAGCT AACTCTTTCA
 178851 AAAGAGTGAG AAATACATTG CATGTAATTA TGTTATCAGG TGGTGTCTGT
 178901 GCTTTTTTTTT TCTTTTTTTTT CTTTTCTTCT GAAGATCCCT TTGACTTTGA
 178951 AACAGGAGAA ATGGCACTGG GAAAGAATAA TGCCAAGTCT TATACTTGTT
 179001 TACAATTTTT TTTTGCCTTC AGTTCAACAA AGCAAGTAAT CTTTACCATT
 179051 CACCTTAAGG AATAAGTACA ACTAATCTTT TTCTTTTCTG TTCTTTTTTA

Z1 gene exon 5

179101 ACATCTGAAT CATTTTCAG ACCAAGACTA AAGCAGTACA GATGATGTTT
 179151 CTCAGAGATA CATTTTTGAT GCTCCATGAA CAAACAATGA AATTCAAAT
 179201 TATTGAGCTG CCGTACGCGG AAAATGAACT CAGCATGTTT GTACTCCTAC
 179251 CAGATGACAT CAGTGATAAC ACTACTGGTC TGGAGCTGGT AAAACTGACA
 179301 TACTGCATCA CACGCACTAC AAAGCACTAA CAGAAATAGA TGAAAACAGT
 179351 GAGGAAGAAT GAACTTCAA TGACACAATG ACTGCTCAGC CTAGGTTTCA
 179401 GGGCATCTAT TAATGATGCA AAAATACAAA TCTACCTGAG GATACACCTA
 179451 AAAAAGTATG CCCACTCTAC TCTCTTAGCC TATTCGGTGC CTCCTTTTCT
 179501 ACCTCCAGAA TAGCAGAATA ACGAAAGCAA GAATCAAATC TAAACCACTG
 179551 TGCCCCAGAA TTAATCTTCT GAGGGCAACA CTAACCAGTT TTATGTCATC
 179601 CGCAGTCCAG ATTTCCACCT GATACTTTGT AACGAGGCTT TTCAAACCTG
 179651 GGGCTGACTT ACCTTGACCC ATGAGGTATC AGCAGCCACT CATGACCGTG
 179701 CCAGGATTAG TTCCTGAATC TAAATACATC AGAGCTTCAG AATCTAAATA
 179751 CATCAGGGCA AATATCTTTT TATTTGCTCT TGAGGTCCCA TGCATTCCAC
 179801 TTACTTACCA CTACTAAGAG AAATGCCTTA CAAATTCACA CATACCAAGC
 179851 ACTTATTAAT GTGGTTAAGT TGGACACTGC ATAAAAGCAA CACTTCTCAT
 179901 ATCCACCTCC AAAATAATGA ATTATTCTGA AGGTTCACCT TACACCTCAC
 179951 TGCATTTAAG GAAACAGATA GAAGTACAGG TCACTCAGCA CTATGCAGGA
 180001 TCACATCCTA AGAATATGCA GCACATTTCA GCTGTACTCA CAGCTGGTAG
 180051 TTGGACCTTT TAAATCTAGA GCATTAGACA CCAATGTATG CATGCCTTCT
 180101 TTTTCTGTG GCATTATGAC TATATTCTTA TAAATTCAT TGCAGGTAGA

Z1 gene exon 6

180151 AAGAGAGCTG ACCCAGGAAA AATTAGCTGA ATGGTCCAAC TCAGCCCGTA
 180201 TGATGAAAGT CGAAGTGGA CTGTACCTGC CCAAGTTGAA GATTGAAGAA
 180251 AATTATGATC TTACATCCAC TTTGAGCAAC ATGGGGATAC AAAATGCTTT

Fig. 1-69

180301	TGACCCGTGT	CAGGCTGATT	TCACAAGGAT	GTCAGCAAAG	AAGGACTTCT
180351	TCCTATCAAA	AGTTATTAC	AAAGCTTTTG	TGGAGGTCAA	TGAAGAAGGT
180401	ACCGAGGCAG	CAGCTGCCAC	AGGTGTCTTG	GTGTTGAGGT	CAAGAACACC
180451	TAGAGTAACT	TTCAAAGCCG	ACCACCTTTT	TCTCTTCTTC	ATCAGACACA
180501	ACAAATCCAA	AACCATCCTC	TTCTTTGGCA	GACTATGCTC	ACCTTAGTCA
180551	GAGTCACTCC	CTGCTCTACA	GAGCAGGAGA	TGCTGGCTTG	CCAGCTCAAG
180601	GGCAGAGCTT	GATACTCCTG	CTGCAGCTGA	GGGACTAAGA	CCTGCACTCT
180651	TTCAGACTAC	ACATTCCACA	GCCCAAGGCA	AAGCTTCAAC	TACTCCAGAT
180701	AGCCATAGCA	GTGCCTGTAG	ATGCATTTGA	TTCCTTCCTC	TTGCAGCAGT
180751	AGATACAAAC	ACATGGCACT	ATCTTCGTTT	TCACAAGTAG	AGCACCTGAT
180801	TCAGGTGTGC	ATCTTCACCC	TTCCACCCTG	CCATAATTAG	CCCCTGCTCC
180851	TCTGTAGCTC	TTGACTAGTT	CTTTTGTGTA	CAGAGGCACA	CACAGCCCAA
180901	GCTTAAGTCT	TTACCAGTTC	ACTTCCATTC	TACTGATTGC	CTGAAAGACA
180951	TAACAAGCAC	ACACTCCAC	GTGGGCTATT	TCCTCGCACG	GAGTTACAGG
181001	TGTGACAGAA	GAGCCTGACC	CATGCTGCTG	ACTTTATACA	AAGCAGCACC
181051	TGCTTCAAAA	ATAGCAGTAC	TGATAATAAA	CAACCCCTCG	TAGCTTGATG
181101	GTGCTTTCTG	TCAGCTCTAC	CAGGAGGGGA	AGGCAGAAAG	GGAAATCAAG
181151	CAGCGACAAG	AGGCTCGCGG	AGGTAGCGAC	CTCCGAGCTA	AAATGGCCGC
181201	CTCCCACTGC	TGCAGCGAGT	GCTCAGGGCC	GCTTTCCGCA	GCTGAGCTCC
181251	AGCCCTCTCC	CCCACGATGG	GCGGCCCGTG	GCTAGGCAAA	AACTTCCGGG
181301	AGGAGGGCGG	GGCAGAGGCC	AGGGGAAAGC	TGGTGCTCGG	CTGGGTGAGT
181351	GTGGAGGGTC	TGTGTTGTTG	TTTTCTGCGG	GAAACACGCA	TTGGTTTTTT
181401	GAGGGGAGAC	GGTAGCGTTT	CCCTCGCGGC	GGCGCTCTGA	GCGGTTTCGG
181451	CGGGCGCGGC	CGCCGGGCGT	TGACCGGGTG	CTGGAGGCGG	GAGGGGCCCC
181501	GCAGAGTTCC	GCACCGCTGG	AATCCATCCC	TGTCATCCAG	CCCTGCCTCT
181551	GTGGGTTTTG	TGGCAAACAG	GCGGAAATCG	ATGGAGAGGT	GCGAGCTTCA
181601	GCCTGTTCTG	AGTCACAGGG	AGAGAGCTTG	GCCAATTGTC	CTGCGCCAG
181651	CCTTATTGGA	GCTGTAAGGT	GCACGGGATT	AAATCGCTCC	TGCTTCAGGC
181701	AGAATGGAAG	GACTGTTTCA	GTCCAAGTTT	TCTTTTCATC	AGTGTTTTTTA
181751	TGGCTATGGG	CAGAAGGAAA	CATGAGTACA	GCTGCAGCTG	TTGAACGTAG
181801	CCAAGCTCCT	ACCAAGAATT	TGTCTTAGAG	GAAACATGCC	TGAGGAAACT
181851	TGCTGCTACC	GCTTGTTTGA	GATGATGAAT	CATTAATACA	AAGTAGGCGT
181901	TGGCTCTGTA	TTTTCTAGCA	ACGTACCAAC	ACCAGGCACT	GCCTTAGGGG
181951	AAAAAAAACA	AACCACCTTT	ACTACTAGTT	GATATCCTGC	GATGTCTGCT
182001	GGCACTTATC	TGTAACCTAC	TCCACGTTCT	GGCACTCGTT	GCTCCTTCCT
182051	GTAGGTATGT	AGTATAACTT	CGGATTAGTT	AGCTACCTGC	TCGGCTGACG
182101	TATGTGAAGT	CTGACAAGCA	CTGAGCTACG	TATGTGCCAT	GAAGTTCCCA
182151	ATAAACCGTT	TACTTTATTG	CGTCTGTTTC	CATCGTGTAG	ACAATAAAAG
182201	GCAAACTGCA	GTGGACTTTG	ATTTTGTACC	ACAGCAGGAA	ACCCCAAGTAA
182251	TCTGTAATGC	TGACCAGATA	AATTTGTTTT	GAATATTGTA	GATCGAGTCA
182301	TTCAGTTGGA	TTCTGGCAGA	CTGACTGCTA	GGTCTAGAAC	ACAAGTGAAG
182351	TAATCTTGAA	GGGAATACTG	AAGACACACA	GACTTTGAGA	AGGTGAGTTT
182401	ATAATTCTGC	CATTCTGATA	CCTTTCTGCT	TTGGTTTTCC	TGTAAAGCAA
182451	ATAACTGTCT	CTGTGGAGCC	AAAGGAGACT	TATTCTACCA	AGTCCTAGTA
182501	TGCTCATCTC	AAAAAATATA	GTATTATTTA	CTCCATGAAG	AAGACCAATG
182551	ACTTTTCCTC	ACTACAAGAA	AGACATTGAG	GTCTTGAGT	GTTTCCAGAG
182601	AAGGGCAAGA	AAGCCGTGAA	GGGTCTGGAG	CACAAGTCTT	ACTATTGAGT
182651	GGCTGAGGGG	GCTGGGATTG	TACAGCCTGA	AGAAGAGGAG	GCTCAGAGGA
182701	GACTTTATCA	CTCTGTACAG	TGACCTGAAA	GGAGGTGTA	GTTGGCCTCT
182751	TTTCTGGGGT	AACAGCAATA	GGATGAGAGG	GGATGGTCTC	AAGTTGTGTC
182801	AAAGGAGGTT	CAGATGGGAT	ATTATGAACA	ATTTATTTTC	CGAGTGGTGA
182851	GGCACTGGCA	CAGACTGCCC	AGGAAGGTGG	TGGAGTCACG	TCTCTGGAGG
182901	CATTTAAGAA	ACATGTAAAT	ATGGCACTGA	GGGATGTGGG	TTAGTGGACA
182951	TGGTGGGAAT	GGGTTGACAG	TTGTACTAGA	TGATCTTATA	TTTGCTTTAT

Fig. 1-70

183001 GGTTTATATT GAGAAATGTA AAAGACAGAA ATAGGTTGTC AGTTTGTGAT
 183051 CAAATAAATT TAAGCCAATC TTCAATTTTT TTTTCTCCT AGGCTTTGAA
 183101 CCATGGATAG CCTCAGTGCA GCAAATCCA CTTTGTCTCT TGACCTTTTA
 183151 AATGAGCTGC GTGAGAAAAG CAGCACAAAG AATCTATTCT TTTCTCCTTT
 Z2 gene exon 1
 183201 TAGTATTTCT TCTGCTTTGT CTATGATTTT ACTGGGTTCA AAAGGGGACA
 183251 CTGAAGCCCA GATAGCAAAAG GTATGTATCC AAACGTAATG TATTGGATTT
 183301 GATGCATATA TCATCTACTT AATGATATAT GAACTACAGA TCTGAGATCT
 183351 GTATTACAGT CTGTGACCTC TAATTGCTGA ATTGTTACAG TCATTCTGGC
 183401 CTCAGAGGTC AGAAGTCTTC CTTAGGTATG TACATAAGCA GAACCTATTT
 183451 CTATTGAGTT TATGTATAGG ACTTACTGCA GTGTGAAATT AAGAGATTCC
 183501 TGTTTTTTGG GGTGTGTGTG GGTTTTTGTT TGTGATACGG AGATCTTCCT
 183551 TTTATATGTC ATTAACAGGC ACCTGGAATT TCTTTTTTTT TTTACTTACA
 183601 TATTTGTATA TTTAGAGCTA TAGATGAATC TCCAGTTACA TAAAATAATT
 183651 TACTCTGTAA TCTTTTTGGG CTTAATATCA GACTTTGCAT ACTTCAAAAA
 183701 TGTAGCCAGA TAATCAAGGG AAAAAAATC CAACATACAA GCATGTCATG
 183751 TTAAACAGTC CCAGATTTTA GGAAACAAAC AAAAAATGA TCAGTTGCTT
 183801 GTTCAGTGTA ATAGCTTTTG TTTTCACAAC CTGTAATCTC AATCCTGGAA
 183851 CATCCAGAAG AAAGAAGTGA TACAGGGCTA AGAACATAGC TCTGAAGTTC
 183901 CAGAGAATAC CCCAGCAAAG ATTCAATGGG GCAAAGCTGC GTGGCCAGTG
 183951 AAGAGTAAAA TTCATAATGT AAACCTGCAA TTAAATTACC AGGAGAGCAG
 184001 TTAAGGAGTG CAGTGGTGGG CCTGTTGTGT GACAGTAGGG TCAAATCTAT
 184051 CATTAACTGC AGTGCAGTTT ATTCTACGTT CACTAAGGTG CGTGCCTGCC
 184101 TCTCTCTTTC TGGTATTGTA ATTTGGAGTA GATCATCAAT ACTTTTTCAT
 184151 TTGTAGCTAT GGTAGTAGTG ATGAGGCTGA ATGAGGATGA AGCTGATGTG
 184201 TTGTTTTAAT GGGAATTTAA ATATTTGCTT GTGTTGACAT CGGCTCCAGC
 184251 AGCCTATTTT CTGTTATCGC TTGAAGGATC GGGTTTGCAT CTAAGGTATT
 184301 AAATAAGATG CTTTGGTGCT ATTATAATCA GTGTGAAAAA TTATGGAAAG
 184351 TTGTTTTTTT TTATTTAATC TTCAGGCTCC TTTGTTTCTG GATTTTAACA
 184401 GTTTTGCTAG GTTTTATAGG GTGGAGATTA TAAATCCTCA GTTCTCTAAG
 184451 AAGTACTGTG TACAGCATT AAGAAAGGGC AGAATGTGTC TGCACTCAGA
 184501 CTTCTTTGGA GGCTGGATGG GTTCCTTAGA AAGCAGGGAG ATAAACCAGG
 184551 TAACCTCCAT AGCTTCCTTC CAACCTCAAC CATTGTGTGA TCCTCTAATG
 184601 CTTGGACAAA ATGAAGATAA ATACCACTCA CTTTTCAGCA ACGTAATTTT
 184651 TTGCTTATAC AACATCTGTG TGGATACATT GTACGTGACT TGTGTAATGA
 184701 AAAATCTGCT GGCTTCAAGT CTCAAACTC ATTTAAAAAC AGAACAATTG
 184751 TGCTGATGCA AGTGTGTCAG AGATTACGTG GACTCCACAG AAGGTATTTG
 Z2 gene exon 2
 184801 TCTCTCTGCA GGTGCTTTCT TTGAACAAAG CTGAGGATGC TCACAATGGG
 184851 TATCAGTCGC TTCTCTCTGA AATTAACAAC CCTGACACCA AATACATCCT
 184901 CAGAACTGCT AACCGACTTT ATGGAGAAAA GACATTTGAG TTTCTCTCAG
 184951 TAAGTAAACA TTAAATTTGG GTGTTGTGAA GTATAATGTA CTTGCTAGCT
 185001 ATTCCCCTTG AAGGTTAGAT AAAGGCTTTG GGTTTTACTC TCCAAATTTT
 185051 TCTAGGCTGA GACTTACAAC CTGAGAGTCT ATGCAAAAAG CAGGATGTGA
 185101 ACAGAATGGA GAAGCTACTT TTAGATTATA TGAATGCACA ACTGGTGCAA
 185151 GACCATGAAA AAAAATAAA TCTTCTAGGT TTCTTGGTCC ACTTTTGGTG
 185201 GGTTCTAGGA TCAAATGAAT GACAAATCTC CTTGCCTTTG ATAACCTGTA
 185251 GCTATGATGA AAACAACGT TACTGCTGTC CAGCATGGGC AGAACTTTTC
 185301 TTTTTTCTTA ATTAAACAAT CCAGAGAACA TGCTGAGAGG AGTATGTGAC
 185351 TCTTAATATT TTCCTTATAA GTATATATAC ACAAGAGGGC ACAGGTACGT
 185401 TGCATATACA TTACATATAC ATTATAACAT TGTATGTTCT CTCACCTAAG
 185451 CAAAAAGAAC AAACGGAAGA AACAAAAAGA AACAAACCAG ACAATCATTT
 185501 CTCAGTTGAG TACTGTAGAA TGTTCTGGTG TATTAAAGAA GACATTTGAC
 185551 TTCTTAATAA CAAAGAGGAA GATAATTCCT AGCTCAGATG GCTAATAAAA

Fig. 1-71

Fig. 1-72

188151 CTTTACCCTA AAGCAAATTT CACAGATATC TCCAATTAAC AATTAAATCT
 188201 CAGGGATCCT TACTTCTCAT CTCTTGCTTT ACGAAAGAGT GACTGTGCTA
 188251 TACTATGTGA TGCAGTGTAC TTAGTTCTCT GTGCAGTCAA ATAGTAAAAA
 188301 GCCCTAAGTA ACTAGATGCC TGCTTCATGT ATTAGGACTG TCATGCCAGC
 Z2 gene exon 5
 188351 CCAGTAGTAA CTCTTAGTGT CTCTTTCATT TTAGAATGAA ACCAAACCTG
 188401 TGCAGATGAT GTTCAGAAAA GGTAAATACA ACATGACCTA TATTGGAGAC
 188451 TTGGAGACCA AAATCCTTGA GATCCCTTAC ATTGGTAATG AACTCAGTAT
 188501 GATCGTTCTA CTCCCTGATG CAATCCAGGA TGAATCTACT GGCTTGGAAA
 188551 AGGTAAGTTA TTGAGCTCAG TGCAAAGACA GTTTGTGTCC TGCCTTGGAA
 188601 GAGAGTTTGG TGCTGCACAT GGATTACAG TTCAGTTTCA GAGCTATTAT
 188651 ATCATTGATG CTCAAGACTG ACTGAAATGC TCCTTGTGTT TCTGCCCTTA
 188701 AAGTGGCATG CCATCTATTA CTACTGGCCA AGCTATGTGC TGCTGTGCTA
 188751 AGAGGCTCTG AAAGAGGCCT CATCAGAAGC TGTAATTATG GTGAAGCCAT
 188801 AGTATGATGA GCACCAAATG AGAGGGAATT TGGGGCAGCT CTTAGGAAGT
 188851 CCTTACCAGA ATTTCTACAG TTTGTCCCAT AGGTCATCTT AGTGAAGACC
 188901 TGGCAGATTG TCACTGCCCC TCTACTTGGA AACACGCTCA CAGAATAGTC
 188951 CAGGTTCCCT TCCGTTGTGA TGATAGAATA CAAGTCATGC TCTGGCCTCT
 189001 TGTTTTTTTT TCTAATGCTG ATTTTAATTT AAAAAGTGTT GTAAGCAGGT
 189051 TTTGTCACCA GCCCGTGAGC TGAAAGATCC TGAAAGGCTG AAGAAGTGGG
 189101 TTCAGTTTGT TTGGGGCCTT GTCAGCAGTT CTCCCGTGCC TTTACTCCCT
 189151 ATATATAAAA TAAGGTTTTT ACAATCTGAT AATGTTTTAT AAAGTGAAGT
 189201 TTAAGTATATC TACCACGAAA AAGAAAACAC CAAACAAGAA TTGACCTCAG
 189251 CTGAAGCTGT AGTCTCTAGT AAGTAGAAAC CTGTAGTGAC TTGTGCTTTT
 189301 GACTTGGGAT CCTGTAAGCT CCTGAAAAAG ATGCATATTG CATGTATGTG
 189351 TTTACATAAC ACACATACAC AGACAAAAGT AGAGATTAGT GCAAAACTGT
 189401 CACTATTCTT ATTTTAATTA CCTAATGTTG GGTATGTTT CGTTGCTTTT
 Z2 gene exon 6
 189451 TTTGTTTTAA GCTGGAAAGA GAACTTACAT ACGAGAAGCT GATGGATTGG
 189501 ATCAATCCTG AAATGATGGA CAGTACAGAA GTGAGGCTGT CTTTACCCAG
 189551 ATTTAAACTG GAAGAAAATT ATGATCTGAA ACCCATCCTG AGCAACATGG
 189601 GAATGCGTGA TGCGTTTGAC TTACGGATGG CGAACTTCTC AGGAATCTCC
 189651 TCTGGTAACG AGCTTGTGCT CTCTGAAGTG GTTCACAAGT CCTTCGTGGA
 189701 GGTCAACGAA GAAGGCACTG AAGCAGCAGC TGCCACAGCA GGAGTGATGG
 189751 TGCTCCGTTG TGCTATGATC GTTCCCGACT TCACTGCCGA TCATCCCTTC
 189801 CTCTTCTTCA TCCGGCACA CAAAACCTCC AGTATTTTGT TCTGTGGCAG
 189851 ATATTGCTCT CCCTAAGAAG AGAGACAGAA GAGCTACCAT TAACGCAGTA
 189901 ATGTGATTTT TTTTAGGATA GAACTGCTCT TTTGCACTAA CTGCTTATTT
 189951 CCACTGTGCC TGAATCCCTT TATCTGGTTG TCATTTTGGG CTTGCGTAGA
 190001 GTAACAAAGC CACTTACACA TACACAGCAG CTACCACTTG AAACAGCTGC
 190051 CTTACACTTT GCACCTAAGT GGAGTTGTTT TCTTGCTGGC CCAAGAAAGA
 190101 TGAACATCCC ACTTGCTCAG TGAACCTCCA CCTGTCTTAT ATTTTCTATT
 MAR (0.658)
 190151 GCACTTTGCT TTTGTGTGGC CACCAGGTAG CAAGGTGACA AAGAGAAAAG
 190201 AAGTGGATTT TGTTTCTGAC TATAGTGGA GATATCTTAT GCTCTGCTCC
 190251 CCATTTTTCT TCCTCTCCCC ACTTATTTTT AACTTTTTCT TTAATGTTTT
 190301 GATAATAGAG GGAGATGAAA GGAGGCTTTG GCGACCTATT TGTAAGAGTT
 190351 ACTAAGCATC TGCACTAGAC AGAGGTTTTA TTATAACTGG ATAGCACTTA
 190401 CACAAGGATG GGAATAAAAG TATGTCTGTA ACAAATGACC TTAGAGGTTT
 190451 TCATGGAGTA CGGATTCTTA TCTTAACACC ACATGTGCCA CCTGGGAATA
 190501 TTAGCTATCA CTCACCTACT TCATTAGTCT TTTAAAAAAA GAATGTTTTT
 190551 AAAACAAAC AAACAAAAA AAACCCATAG ATGCCTATGT AGTATTTAAG
 190601 TGACAGAGCT TTATTTTTGT TTTTCAGTCT TTATATGTTT TTTTCCTATT
 190651 CTGGGTTTGT AAAGCATCTT TGTTAATCTG AATGCCAAAG GTTTCTTAAC

Fig. 1-73

190701 GCAGTGATTT ACGTGTTTTG CTGTTCTTGA AAGAATAAAC AAATTTGTTG
 190751 TGAGTGCTGT GGGCATTGCC CATAAATTTT GTGGGGTTTT TTTTTTTCAT
 190801 GGCTACTGTA AAGAAAACAA GCAATCAACT TTCGTGTAGC TTATGCAGAA
 190851 TTCATTGCTT AACAGAGGCT TTTCTGAATG CTGCAAGACC AAGATGCCTA
 190901 CCTGGATTAC GATGGAGTTT AGGTTTTTAC CTTCAAGGA TTCATAGCAA
 190951 GGAGTCTTTG AGGCAAAGGC TCAAGGGATT TTAAAGACTA TCTGGTTCCA
 191001 ACTCCCTGCT GTGGGCATGG CTGCCCAGGG CTCCCTCCTC CCTGGCCTTC
 191051 GACACCTCCA AGGATGGGGC ACCCACAGCT TCCCTGGGCA GCTGTGCCAG
 191101 TGCCCTACCA ACCTCCAAGT GAAAAAGATC CCCCTGACAT CTAATTGAAA
 191151 GTTCCTTTCA TTTATTTTAA AGCCATTCCC TCTTATTCCA TCACTATCAG
 191201 ACCAAGGCTC CTTTATGTGA TTGGAAGGCC ACAACAAGGT CCCCTTGGAG
 191251 TCTTCTCGAG GCTGAACAAG CTAAGTGCTT GTTTCCAGAT GGGGTACTGC
 191301 TGCTGTGGGT GCAACTCCTT GGCCCCAGGC CAAGGAGTGT GCCATGCCTC
 191351 AGATGCAGCG ATTAGTCACC ATTTGGGGTG AGGAAGCTGC CAAAGTGCTG
 191401 CCTGTCAGAC CGATGCTCAG TCAGGGCTGA GAGCAGCAGT GGGTAGAAGG
 191451 GAAGTGGGCA GCCTCTGCTC CCAGTGCATT GTCTGGGAAG GGGGTGGTAG
 191501 CAAGATGAAA AGTAGAAATT TTTCTGACCC TTCCTACGTG TCCAGGCTGC
 191551 TGCTGGAGTG TATTCATGGT GCTATGCTTA AAGTGAAAGC AAAAGCGTGC
 191601 TTGTCTAATT TGCTTCTTTT CTAAATTGAA AAGGAAAGTA ATCACATTAA
 191651 CGTCTACCAT AAAGCAGAGA GAAGCTGCCA GAAAGCTTGA GAGAAGCTAG
 191701 AAGCAGCCAT ATCTACAAAT CCCAGTGCAA ACAAGAAGGA GGGATCCCGAG
 191751 CTGCACAAGC AGGAAGGCAG GAAGGTTTTA CAGCACTGTC TGCCGCCAGC
 191801 CTTTGCGTAA CCATCTGCCC GCCCCAGCAT TGCACCTTTC AACCCACTCC
 191851 CAGAGACCTC ACAGCTCCCA GTGGTCCTAG CTCCAGCTTA CTGCTGGCTG
 191901 CTCTCCTCCT GGTTTGATCC TCCCTAGCAG CTGCCAAGCA TCACAGGAGG
 191951 TAAGTGTGTG CTTGCTGTGC CTCTGCATTT TGCAGCCTGA AATGAATCCA
 192001 GCCCTTGGA CTCGCACTAG GGCATCGAGG AGTGCTTTCT GAAGCCTTCA

 192051 CTGAAACTTT TATTTTTCAG CTGCAGCCAT GGAGAGCCTG AGCAATGCCA
 192101 ACAGCAGGTT TGCACTTGAT CTCTTCCGAA AGGTAAATGA GACGAACCCA
 192151 TCAGGAAACA TTTTCTTCTC CCCTCTCAGT ATTTCTACTG CTCTGGCCAT
 192201 GGTCTCCTC GGGTCCAGAG GTAATACAGA GACACAGGTG CTGAAGGTCA
 192251 GCAGCATTTT CGCTTGTTTT ATTAATAATTA AATGTTGTTT AGTTTTAGAG
 192301 ACAAGGCAAG GGGAGGAGGG CGTTATTTGC GTGAGCTTGG GGCAAGGTTT
 192351 CTGTCACTCC TGCTGACTCT TCCCCCTGCT TGCCACCTGC CTGCTGCACT
 192401 CCAGAGCCCT CCTCTTGTC TCACTGATAG CCCTTCTTTC TCACTTCATT
 192451 TGGGTAAATT GATGAATCTG GAAACTAATT TCACTGATTT ATCAGTCTTA
 192501 ATTTAAAATC GATTAGCATC TCCAGCAGCA AGTCTTTACT AGAGCTTGTTG
 192551 ATAGGACATG GGGGAACAGC ATTAACAAA AAGGGAAGAT TTAGGCAAGA
 192601 TATTTGTTAG AGGAAGTTTT TCCACTGAGA AAGTGGTGAG GTGGTGGCAC
 192651 AGCTGCCCAG GGAAGCTGAG GGTGCCCCAT CCCTGGAGGT GTTCAAGACC
 192701 AGGTTGGATG GGGCCCTGGG CAGCCTGAGC TGGTGGGTGG CTGCCCTGCC
 192751 CACAGCAAGG CAGTGGAAC TGGTGGGCTT TAAGTTGAAT TCCAGCCCAA
 192801 CCCATTCTA TGATTCTATG AGCCTTTTCC ACAGAGAACT ATTGTTTTGC
 192851 AATGTATACA TACATAATGG TATACATAGT AATGCTAAGT GTATCTTATA
 192901 AATAAAAAAT AAAATATAGA GCTGTATTAT TCTAAGGCTG ACAACTGTTA
 192951 CAATACATGG TGATGTTACC CAAGACCCAG TGTTATAGCA GCCAAGCACC
 193001 CAGTATTTCT GAGGAGCAGA ACTCACGTGT CCATTCTCAT GGTATCCTTA
 193051 GGTTGAGCAG CAGAGGTTAA ATGAAAATGG TGTGGCTCCT TTAAGGGGG
 193101 CTTTGTGTG GACCCAGCTC ATCAATCCTT TCCCACTCTC CACAACAGCA
 193151 GTTGCAAAC GCAAATCTC ATGTAGGTAG CAGTGCCAAT TCCCTCTCAG
 193201 ACTCATGTT AAAAGGGACC CTGCCTCTTT TTTAATTTGC AAGGCAAACA
 193251 CCTGCTAGTG CAAGGGGAAG TATGAAAGAA TTGTCGCTGT AGTTCCTATT
 193301 AACTTATTTG CCCTATGATT AAGTTCACCT TTGTATTCCG AACTTTAGGA

Z3 gene exon 1

Fig. 1-74

193351 AGAACTTGTT TAGACCATTA ACTGCTGCCA TTCTTTGTGA AAAGACTATA
 193401 AAAGTGAATC ACTGCTTGTA GAAACAGACT TTGAACATAC ATTCCTTATA
 193451 ACTCAACTGT CAGCCCCACC CAGGAAGAAT CTAAGTGAAG CAGAAATAAT
 193501 GCAAGAGAAG CATAGGGAAG TTGGAGATAG AAGGTTGGGA TGAATGGTTG
 193551 GACTGGGTGA TCCTGTGTGT CTTTCCCAAC TTCAGTGATT CTATGATTCT
 193601 AAGGTGTTTC AGCACAGTAA CCTTCTGTAA TGCACATTCC CATGGTATAA
 193651 TGTTTAATTG ATGAGAACAT CAGTTAATTA AGGAGATGAT GACTGATGAG
 193701 TGTGAAGGGT GTTTATAAGC ATGCAGAAAT CCATTTCTGG GATCATAATC
 193751 CTACCTTAAG TTGGAATCAT AGAGTACACC ACGGTGGAGG GGATCCATGA
 193801 GGATCCAGCT CCACACAGCA CCACCCACTA TGGTAGATCC TGCTGCCCAA
 193851 CCTGCACACC TTGGCTAGTC AGCTTCCCTT CAGGTATCTG TATGCACGCT
 193901 TTCATATTAT AACAGCTTTT AATTTTAAGG TGATAGTTGT CTGTAGAAGC
 193951 ACTTATATTT TCATAAAACC AAAGGTTATA GCTCTCACAT TTTCTAACA
 194001 CCTCACCTTC CCTGAGTGCT CAGACAAGCT CAGTAGTCCA CGGAGGAAAA
 194051 ACATGCAGAC AGCACCTAT TAGGACTCTG GATCACAATT AACAGCTTCA
 194101 GCTGTGGCTA ACTGTATTCA GCTACTGCTT TACAAGTGAC ATGGCTGGCA
 194151 CAGCACTAAG GGACAGTTTC ACTTGTTCTT TGATGGTTAC AGCTTTCAGC
 194201 TTCTTTCTGC TTTTGTTTTT CAACTTAACT ACCAAACAAA TACCATACAG
 194251 ATATGCTGCA TGTTCTCTAT AAATACAGCA TTAGCAGTAG TTAGCTCATC
 Z3 gene exon 2
 194301 TCTTTCATTT CAGACGTTTC ATTTTGATGA AGTTGAAAAAT ATACACTCAA
 194351 GATTCCGGGC TCTGACTGCA GACATCAACA GAAGGGATTTC TTCCTGTCTC
 194401 CTACGGATTG CCAACCGGCT TTATGGAGAG AAGTCCTACA GCTTTCTGCC
 194451 GGTATGGGTA CACAGACCAT AGCTGTGTGG TGGAACCTGG GGGGAGGCTT
 194501 TGTAACCTCA TCATCTGTTG CTCTCCTGCC TCCAGAACGC GCCCCATAGC
 194551 AAAAATATCA CACCAGCAAG TCCAGATGTC AAAACTATCT TTCTGCATCA
 194601 ATAAGCAGCA TAGCTCAGGT GTTGCTGTCT TTATAGGAAT GCAGCCATTT
 194651 GAGTATTTGA GGTAAAAACA TGAAGTAGACA TCTAAAAGTT ACCAGGCAGT
 194701 CAGTACGAGT GTTGTACACA TGCCTATAGA TGCAGAAATG CATATGCATC
 194751 TGGACATCCT AAAGGATACG CCTAGAGGAT ATTACATAAC AAATCCCTTT
 194801 CTTTGATAGT TCAGTTCTGC TGCTTTGGGG CTCAAGAGAA ATTGCAAGCC
 194851 ATGTAGGTTT TTAGCTTAGA GTACAGATTA GCAATGCCCC ATTCCTCTGT
 194901 CTGTTGTTTT TTAGGCTTTT CATTGCTCTA GTACTATATT ACTTAAAACA
 194951 TTTTTGAAAA CATTTCTCTG GGGGGAGATT GCCATCATGT CTCAACAGCA
 195001 TGCCTCTTTA CAAGGGAAGT GTACCTCTGC ATCTATTTAG GTACTGCTAT
 195051 TTTTATCCCT CTCCAGCTCT TTCTGGGAGT TTTTGTTTTT TTAGTCAAGC
 195101 TT

Fig. 1-75